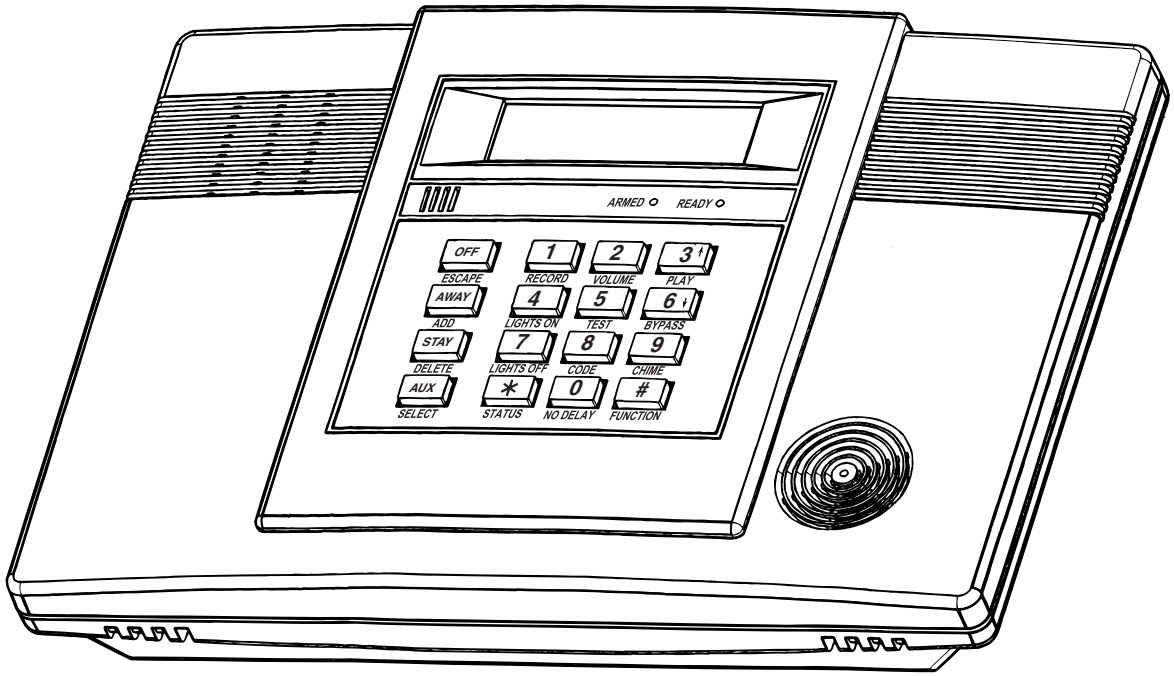
Honeywell

ADEMCO LYNXR-IE Security Systems

Installation and Setup Guide



K14114-5 2/09 Rev. A

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System Features

LYNXR-IE is not intended for Household Fire applications unless a 24-hour backup battery (P/N LYNXRCHKIT-HC or LYNXRCHKIT-SHA) is installed.

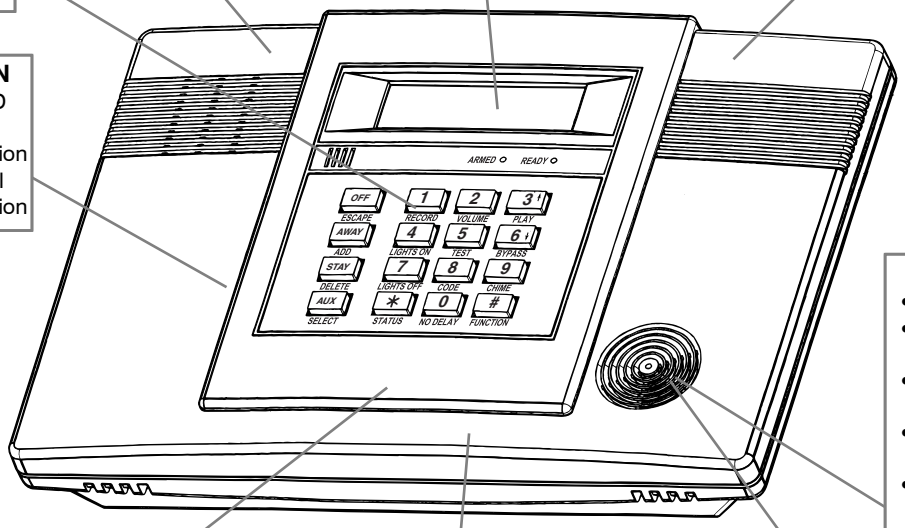
The LYNXR-IE control is a self-contained, rechargeable wireless control/communicators that feature easy installation and usage. A built-in speaker provides voice annunciation of system status along with voice descriptors of each zone. An internal module (if provided) allows the LYNXR-IE to communicate with the Central Station via the Internet. The following illustration highlights the main features of this system.

ZONES and DEVICES
- Up to 24 wireless zones (SECOM V2 GY Receivers)
- Up to 16 wireless button zones
- Up to 8 Powerline Carrier Devices
- Supports wireless keypads

FEATURES
- Real-time Clock display and Fixed-Word display
- Message Center (for user recorded messages)
- Voice announcement of system and zone status
- Voice chime
- Alarm Clock
- Reminder
- X10 Scheduling
- Latch Key Reports
- Automatic Stay Arming
- Remote Phone Control
- "Follow Me" Reminder

SYSTEM POWER
- Primary Power: K10145EX Plug-in Transformer, 220VAC to 9VAC, 25VA output
- Backup battery: Rechargeable nickel-metal hydride battery pack rated at 7.7Vdc.

8 USER CODES
- Installer code
- Master code
- 5 Secondary codes
- Duress code
- 3 Panic functions



COMMUNICATION
- ADEMCO Contact ID
- Internet Central Station Communication
- GSM Cellular Central Station Communication

ALARM OUTPUT
- Built-in sounder
- Piezo output (30mA max.)
- Bell output (120mA max.)
- Steady output for burglary/panic
- Temporal pulse output for fire alarms
- Long Range Radio/Audio alarm verification

PROGRAMMING
- Options stored in EEROM
- Can be uploaded, downloaded or controlled via IBM-compatible computer using Compass downloader software and specified HAYES modem
- Voice Prompt programming mode

OTHER FEATURES
- Exit error feature (detects difference between an actual alarm and exit alarm caused by leaving a door open after the exit delay expires)
- Event log stores up to 84 events
- Macro/Manual Message
- RF Jam Detection
- Remote Phone Control
- Case Tamper

SPECIAL FEATURES
- Two-way voice communication
- Speaker phone operation

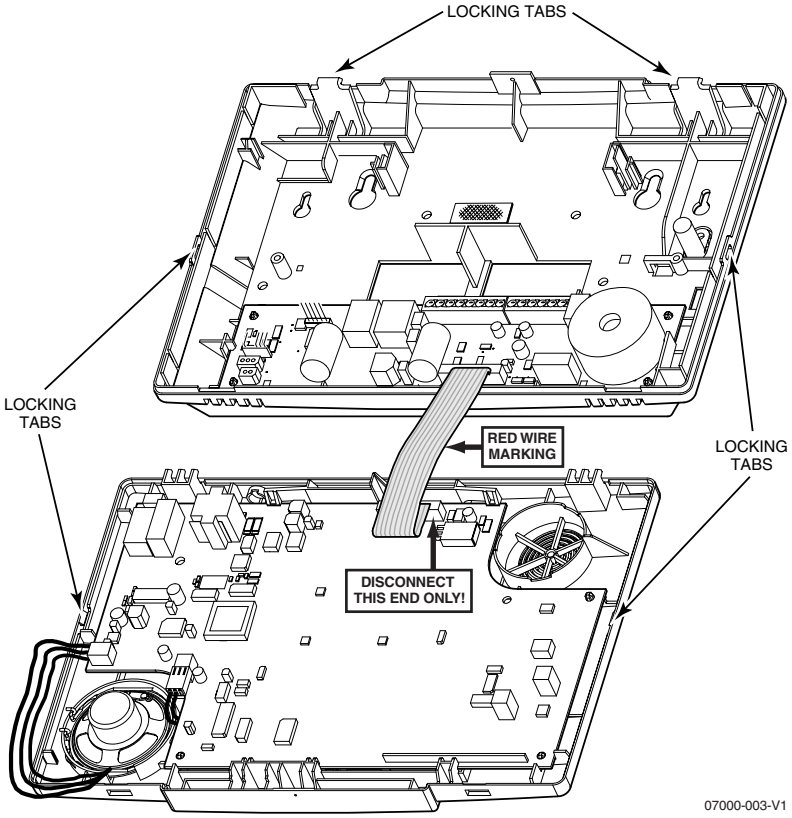
Mounting the Control

Wall Mounting

The illustration below shows the front assembly separated from the back plate.

DO NOT disconnect the ribbon cable from the terminal strip board. Disconnect the cable only from the front assembly board.

1. Release the front assembly from the back plate by depressing the two locking tabs at the top of the unit with the blade of a medium size screwdriver.
2. Once these tabs have been released, insert the screwdriver in the side of the case and release the side locking tabs by gently twisting.
3. Carefully disconnect the ribbon cable from the front assembly, **leaving the ribbon cable connected to the terminal block PC board**. The back plate contains the terminal block for making wiring connections.
4. Mount the back plate to a sturdy wall, feeding the field wiring through the appropriate openings in the back plate.
5. After wiring connections are made, carefully reconnect the ribbon cable to the front assembly PC board connector (properly aligning the red wire).
6. Snap the front assembly to the back plate so it is secured by the locking tabs.



Desktop Mounting

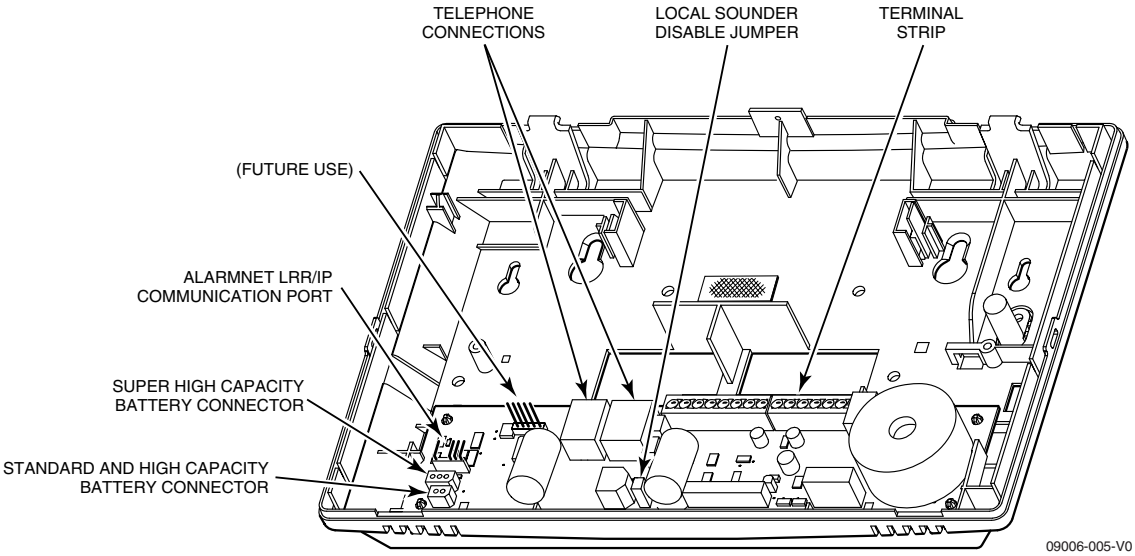
For desktop use the optional mounting base (model LYNX-DM, purchased separately) must be used.

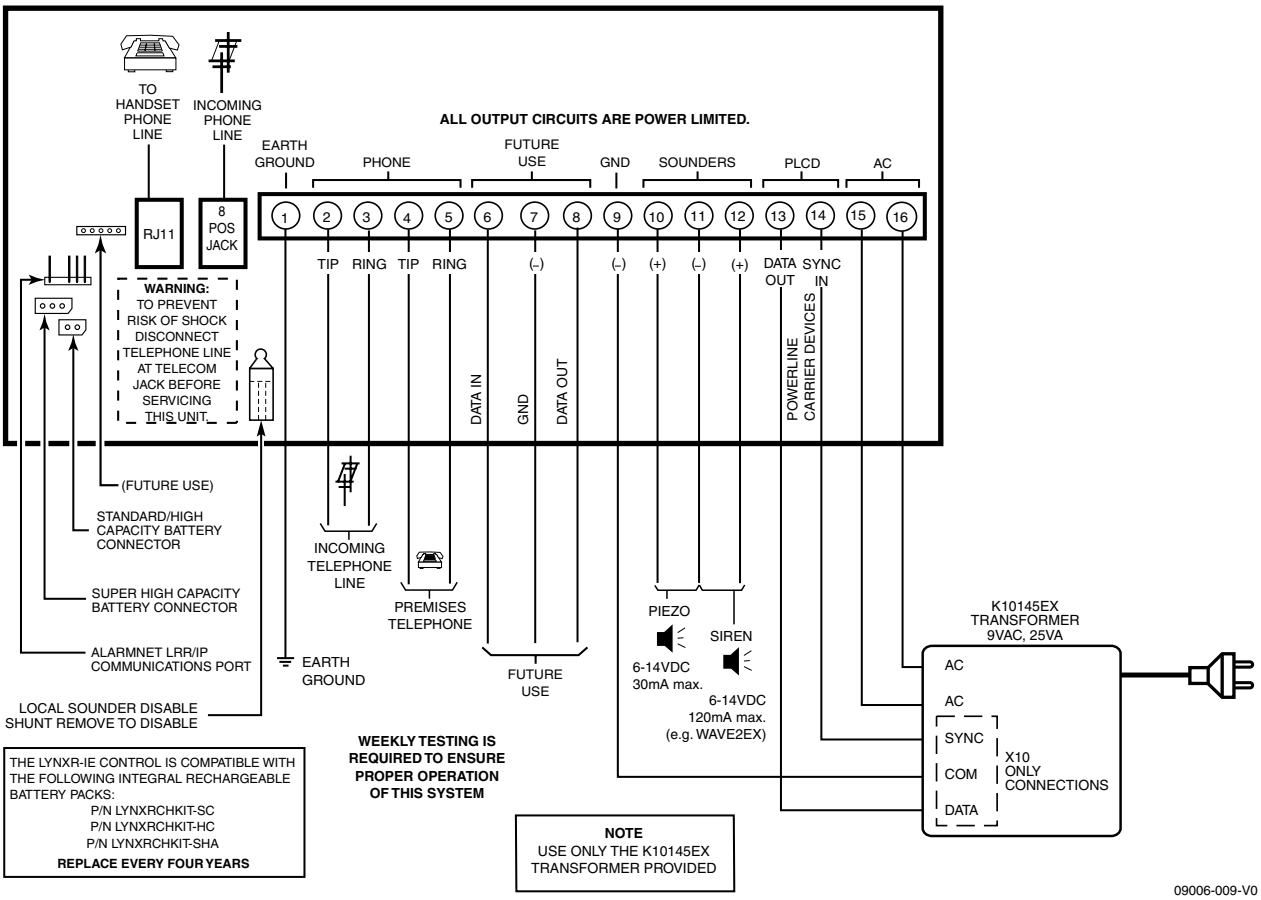
1. Slide the control panel onto the mounting base locking tabs.
2. Bring all wiring through the bottom of the mounting base, using one of the three wire entry locations, before making connections to the control panel.
3. Use tie-wraps to secure the wiring to the built-in wire loops as needed. Use the two supplied screws to secure the control panel to the mounting base.

Wiring Connections

Wiring Overview

The following summarizes the connections required. Refer to the Wiring Connections paragraph and the Summary of Connections diagram on the inside back cover when making connections.





LYNXR-IE Wiring Connections

Wiring Connections

1. **Make Earth Ground Connection** - The designated earth ground terminal (1) must be terminated in a good earth ground for the lightning transient protective devices in this product to be effective. The following are examples of good earth grounds available at most installations:

   Metal Cold Water Pipe - Secure a non-corrosive metal strap (copper is recommended) to the pipe that is electrically connected and secured to which the ground lead is electrically connected and secured.

   AC Power Outlet Ground - Available from 220VAC power outlets only. To test the integrity of the ground terminal, use a three-wire circuit tester with neon lamp indicators, available at most electrical supply stores.

   a. Connect terminal 1 to a good earth ground.

2. **Make Phone Line Connections** - For local or full line seizure, proceed to the appropriate steps below.

   Local Seizure

   a. Connect the incoming phone line to either the 8-position jack or terminals 2 (TIP) and 3 (RING) on the Lynx.

   b. Connect the handset phone lines to either the RJ11 jack or terminals 4 (TIP) and 5 (RING).

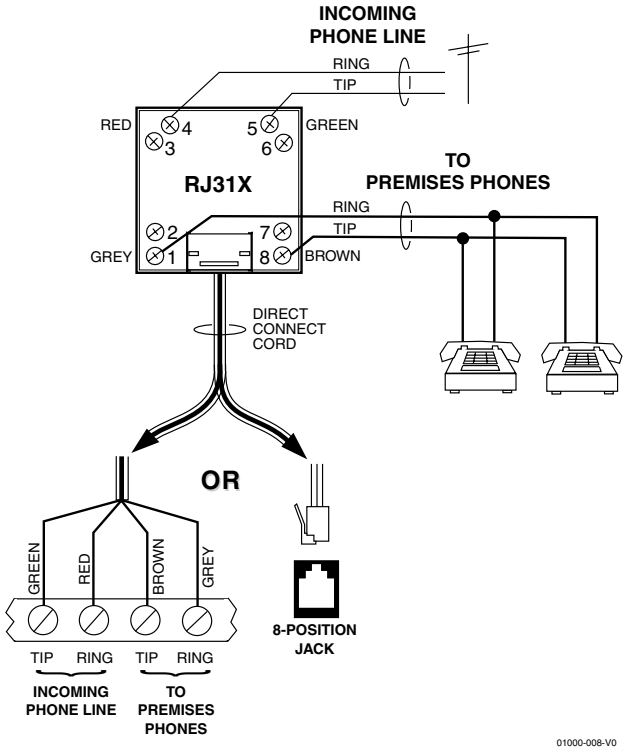
   Full Line Seizure: The control must be placed in **series** with the incoming phone line. Plugging the Direct Connect Cord directly into the RJ31X jack, allows the control to seize the phone line when an alarm occurs and normal phone line usage by the premises phones if the plug needs to be removed.

   c. Cut the incoming RING and TIP phone lines (typically red and green, respectively) and connect them to RJ31X terminals 4 (red) and 5 (green).

   d. Connect the premises end of the cut RING and TIP wires to RJ31X terminals 1 (grey) and 8 (brown) respectively.

   e. Wire the flying leads of a Direct Connect Cord to the control's phone terminals as shown in the diagram or plug into the 8-position jack.

   f. Plug the Direct Connect Cord into the RJ31X jack.



Full Line Seizure Connections

LOCAL SOUNDER DISABLE: The Master Keypad's built-in piezo sounder can be disabled by removing the shorting jumper (shunt) on the terminal board. If disabled, however, no sounding will occur upon AC loss, since the external sounder does not operate when AC power is lost.

3. **Make External Sounder Connections -** The control panel supports either a 6-14VDC piezo sounder (30mA max.) or 6-14VDC bell (120mA max.; e.g. ADEMCO WAVE2EX).

   a. Connect a piezo sounder to terminals 10 (+) and 11 (–); OR a bell to terminals 11 (–) and 12 (+).

4. **Disable Local Sounder Option** - If required the Master Keypad's built-in piezo sounder can be disabled.

   a. Remove the shorting jumper (shunt) on the terminal board.

5. **Make Powerline Carrier Device Connections -** The control panel supports up to 8 Powerline Carrier Devices. If using these devices, they must be connected to the K10145EX transformer, as shown in the SUMMARY OF CONNECTIONS diagram.

   a. Connect the com/data/sync/ lines from the transformer to terminals 9, 13, and 14, respectively.

If not using the supplied connection cable, you may need to reverse the black and yellow wire connections. Refer to the **80 Device Programming Menu Mode* section for details on programming Powerline Carrier Devices.

Connecting/Configuring Communication Modules

General

This LYNXR-IE supports central station reporting via long range radio and internet. It also supports upload/download programming capability via the Internet or a Private local area network (Intranet). This allows site maintenance independent of central station monitoring, and modification to sites globally via the Internet or through a private LAN. Refer to the instructions provided with the LRR/IP Communications Device being installed for additional information regarding its installation, programming, and registration. Zone 103 is the supervisory zone for the Communications Device.

Connecting Long Range Radio and Internet Communication Devices

Connect and configure the LYNXDM-GSM or LYNXDM-IGSM Communications Device as follows (refer to the Installation Instructions for device that you are installing for additional information):

The wire run between the LYNXR-IE and the Communications Device must not exceed three meters.

LRR/IP Communications Device 24-Hour Standby Power

If you are installing the LYNXDM-GSM or LYNXDM-IGSM Communications Device you must install the Super High Capacity battery P/N WALYNX-RCHB-SHA in the LYNXR-IE.

Configuring Long Range Radio and Internet Communication Devices

Program the device as required using the 7720P programmer (refer to the Installation Instruction for the device that you are installing for additional information). Note that the device address must be set to 3.

The device must be registered before downloading or alarm reporting can take place.

AC Power and Backup Battery

The system is powered by a 9VAC, 25VA Plug-in Transformer, K10145EX. Refer to the wiring table below for wire gauge and length.

Use only the provided K10145EX Transformer.

Distance from Transformer to Control	Wire Size
Up to 23m	0.8mm
23 to 46m	1.0mm
46 to 92m	1.3mm

Wiring to the AC Transformer must not exceed 92 meters using 1.3mm wire. The voltage reading between terminals 15 and 16 of the control must not fall below 9.00VAC.

Do not plug the transformer into the AC outlet until after all wiring connections have been made.

Backup battery

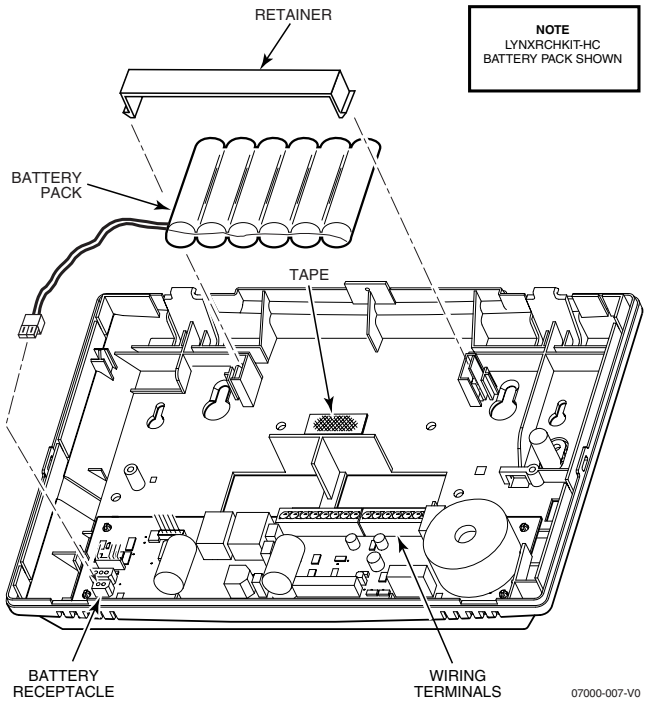
In the event of an AC power loss, the system is supported by a long life backup battery that is supervised for connection and for low voltage conditions. If the battery is missing, or a low battery condition is detected, a "low battery" message is displayed and a report is sent to the central station. In addition, the system will beep once every 45 seconds to audibly indicate a low battery condition (press any key to stop the beeping).

AC Power and Rechargeable Backup Battery

Connecting AC Power and backup battery

1. Connect wires from the K10145EX AC Transformer to terminals 15 and 16 as shown in the wiring diagram.
2. Remove battery retainer.
3. Peel the backing from tape on the back plate.
4. Insert battery pack into back plate.
5. Install battery retainer.
6. Connect battery connector to receptacle on terminal block PC board.
7. After all wiring connections have been made, snap the front assembly to the back plate and plug the transformer into a 24-hour, 220VAC unswitched outlet.

Note: Rechargeable batteries may take up to 48-hours to fully charge. The "LOW BAT" message should clear within four hours or by entering Test Mode.



Ensure the cover is snapped closed prior to applying ac power.

AC Power and Backup Battery

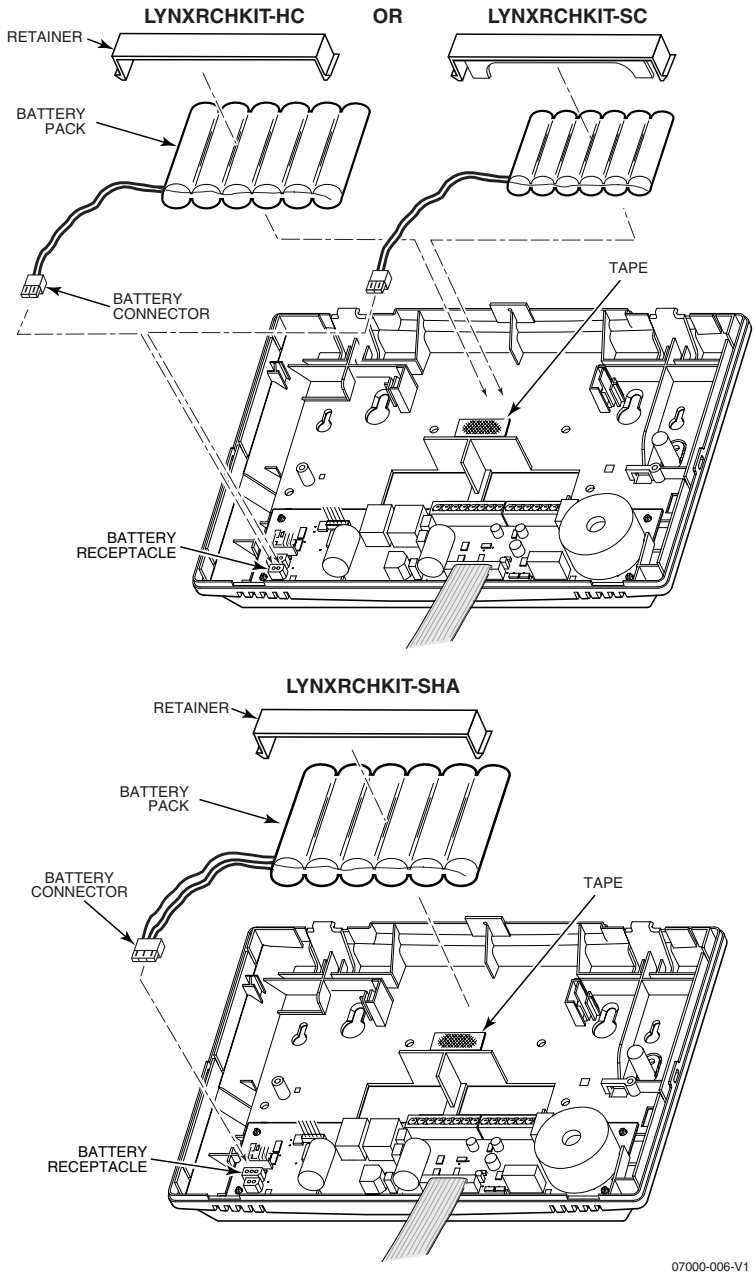
AC Power and Rechargeable Backup Battery

The LYNXR-IE is equipped with an integral, replaceable, rechargeable battery pack rated at 7.7Vdc. Select the appropriate battery pack, based on the installation's requirement, and install the battery pack.

Model/Part Number	Battery StandbyTime	Low Battery Notification
LYNXRCHKIT-SC	4-hours (minimum)	Approximately 1-hour before battery depletion
LYNXRCHKIT-HC	24-hours (minimum)	At least 1-hour before battery depletion
LYNXRCHKIT-SHA	24-hours (minimum)	At least 1-hour before battery depletion

Replacing the Rechargeable Battery

1. When battery replacement is required, unplug the transformer from the wall outlet, and open the control panel cover.
2. Remove the battery retainer and disconnect the battery pack connector from the receptacle on the terminal block PC board.
3. Remove the battery pack from the back plate.
4. If required, replace the tape that secures the battery pack.
5. Install a replacement battery pack (P/N LYNXRCHKIT-SC, LYNXRCHKIT-HC or LYNXRCHKIT-SHA) into the back plate.
6. Install the battery retainer.
7. Connect the battery connector to the receptacle on the terminal block PC board.
8. After the wiring connection has been made, snap the front assembly to the back plate.
9. Plug the transformer into a 24-hour, 220VAC unswitched outlet.
10. Rechargeable batteries may take up to 48-hours to fully charge. The "LOW BAT" message should clear within four hours or by entering Test Mode.



Ensure the control panel assembly is snapped closed prior to applying AC power.

Installing Wireless Zones

General Information

Zones: The control supports up to 24 wireless zones using Secom uni-directional GY Series transmitters, and up to 16 wireless buttons.

Range: The built-in RF receiver can detect signals from wireless transmitters within a nominal range of 200 feet.

Transmitters: Secom uni-directional GY Series transmitters have built-in serial numbers that must be entered into the system using the ✻56 or ✻83 interactive mode, or input to the control via the downloader. Each transmitter's zone number is programmed into the system in ✻56mode. Some transmitters can support more than one "zone" (referred to as loops or inputs). Each loop must be assigned a different zone number.

For button transmitters (RF "keys") such as the CSK800GY, you must assign a unique zone number to each individual button used on the transmitter. Each button on the transmitter also has a pre-designated loop or input number, which is automatically displayed.

Transmitter Supervision

Except for some transmitters/keypads that may be carried off-premises each transmitter is supervised by a check-in signal that is sent to the receiver at 70–90 minute intervals. If at least one check-in is not received from each supervised transmitter as specified in the device's Installation Instructions, the "missing" transmitter number(s) and "FAULT"' will be displayed. The supervision for a particular transmitter in the system that may also be carried off the premises may be turned off by entering it as a "UR" (unsupervised RF) type, as described in the ✻*56 Enhanced Zone Programming Mode* section.
Secom Series transmitters have built-in tamper protection and will annunciate as a fault condition if covers are removed.

Transmitter Input Types

Each of the following transmitters has one or more unique factory-assigned input (loop) ID codes. Each of the inputs requires a programming zone (e.g., a TC805HF's four inputs require four button zones).
Transmitters can be entered as one of the following types (see transmitter's instructions for appropriate input type):

Type	Description
"RF" (Supervised RF)	Sends periodic check-in signals, as well as fault, restore, and low battery signals. The transmitter must remain within the receiver's range.
"UR" (Unsupervised RF)	Sends all the signals that the "RF" type does, but the control does not supervise the check-in signals. The transmitter may therefore be carried off-premises.
"BR" (Unsupervised Button RF)	These only send fault signals. They do not send low battery signals until they are activated. The transmitter may be carried off-premises.

Transmitter Battery Life

- Batteries in the wireless transmitters may last from 4–7 years, depending on the environment, usage, and the specific wireless device being used. Factors such as humidity, high or low temperatures, as well as large swings in temperature may all reduce the actual battery life in a given installation. The wireless system can identify a true low battery situation, thus allowing the dealer or user of the system time to arrange a change of battery and maintain protection for that point within the system.
- Button-type transmitters should be periodically tested for battery life. The CSK800GY and TCB800M button transmitters have replaceable batteries.

When replacing wireless transmitter batteries, refer to the Installation Instructions provided with the specific wireless device.

Using the Transmitter Sniffer Mode

Use this mode after all transmitters have been entered to check that all transmitters have been properly programmed.

1. Enter **Installer code (4112) + [#] + 3.**

Note: If the communicator is in the process of sending a report to the central station, the system will not go into the Sniffer mode. If so, wait a few minutes and try again.

Installing Wireless Zones

2. The keypad will display all zone numbers, which have a non-zero Zone Type (even if serial numbers were not learned yet). Fault each transmitter in turn, causing each one to send a signal. As the system receives a signal from each of the transmitters, the zone number of that transmitter will **disappear** from the display. The transmitters may be checked upon installation, or in an installed system.
3. When all transmitters have been checked, exit Sniffer mode. Enter **Installer Code (4112) + OFF.**

Notes: (1) Sniffer mode does not automatically expire. You must manually exit (Installer Code + OFF) Sniffer mode to return to normal operation.
(2) All BR-type units must physically be activated to clear the display, since they do not automatically send check-in signals.
(3) When one button of a transmitter (RF, UR, or BR) is activated, all zones assigned to other buttons on that transmitter are cleared.
(4) Any transmitter that is not “entered” will not turn off its zone number.
(5) When installing the DOD800GY, the distance between the transmitter and the hard-wire contact must not exceed 5 feet. No more than 10 contacts per zone should be connected to the same RF sensor loop.

Go/No Go Test Mode

The Go/No Go tests will verify adequate RF signal strength from the proposed transmitter location, and allow you to reorient or relocate transmitters if necessary, before mounting the transmitters permanently. This mode is similar to the transmitter Test mode, except that the wireless receiver gain is reduced. This will enable you to make sure that the RF signal from each transmitter is received with sufficient signal amplitude when the system is in the normal operating mode.

1. Enter **Installer Code (4112) + [#] + 8**.
2. Once you have placed transmitters in their desired locations and the approximate length of wire to be run to sensors is connected to the transmitter's screw terminals (if used), fault each transmitter.

Conducting this test with your hand wrapped around the transmitter will cause inaccurate results. On button type transmitters (i.e.; CSK800HF and TC805HF) that have been programmed to set ARM AWAY, ARM STAY, or DISARM, pressing a button will take the system out of the Go/No Go Test mode and cause the programmed action to occur.

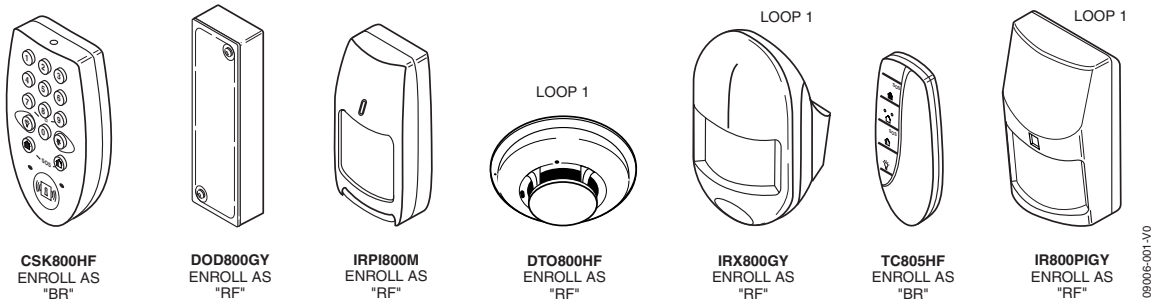
   a. The keypad will beep three times indicating signal reception and will display the appropriate zone number.
   b. If the keypad does not beep, reorient or move the transmitter to another location. Usually a few inches in either direction is all that is required.

3 If each transmitter produces the proper keypad response when it is faulted, you can then permanently mount each of the transmitters according to the instructions provided with them.

4 Exit the Go/No Go Test mode by entering: **Installer Code (4112) + OFF.**

Secom GY/HF Series Transmitters (Refer to this information when programming transmitters)

The following illustration shows the compatible transmitters and their associated input types and loop designations.



Mechanics of Programming

General Programming Information

Programming options are stored in non-removable, electrically erasable, nonvolatile EEROM memory. The system can be programmed at any time, even at the installer's premises prior to the actual installation. Simply apply power temporarily to the Control and then program the unit as desired. There are four programming modes:

- **Data field programming** (used for setting various system options).
- **Interactive menu mode programming** (used for programming zone information, programming Powerline Carrier Devices, and for entering transmitter serial numbers).
- **Voice Prompt programming** (used for setting various system options).
- **Pass-Thru programming** (used for programming connected LRR/IP Communications Device).

The system can also be programmed remotely, using an IBM Personal Computer, a modem, and Compass Downloader for Windows. See the *Remote Programming/Control (Downloading)* section.

Note: You may find it convenient to adjust the volume setting before entering the Program Mode. This will allow you to clearly hear the feedback announcements or system beeps in the Programming Mode, of the system's built-in speaker. To adjust the volume, press FUNCTION + VOLUME+ [3] or [6]. Upon exiting the Program Mode, the system will reset the volume to the default value (mid level).

Entering Program Mode

Use one of the following methods to enter Programming Mode:

1. Press both the [*] and [#] keys at the same time, **within 50 seconds** after power is applied to the Control or from exiting Programming mode, **OR**
2. After power-up, enter the **Installer Code (4112) + 800** to enter **Expert Programming** mode (This method disabled if Program mode is exited using *98). **OR** enter **Installer Code (4112) + 888** to enter **Voice Prompt Programming** mode.

1. If a different Installer Code has been programmed, use that code to enter the Programming mode.
2. Once the Installer Code has been entered, you have 35 seconds to open the LYNX case before generating a tamper condition.

3. Upon entering programming mode, the LCD display will become active and will remain active while the system is in this mode.
4. Once you have entered the Program mode, data field "20" (the first data field in the system) will be displayed and both keypad LEDs will flash. If you have entered the Voice Prompt Programming mode. "Pro" will be displayed.

Programming a Data Field

1. Press [*] + Field No. (for example, *21), followed by the required entry.
2. When you have completely programmed a data field, the keypad will "beep" three times and then automatically display the next data field in sequence. To go to a different field, press [*] plus the desired field number.
3. If the number of digits that will be entered in a data field is less than the maximum number of digits available (e.g. phone number field), enter the desired data, then press [*] to advance to the next data field.
4. If a nonexistent field has been entered, the keypad will display "EE". Simply re-enter [*] plus a valid field number.

To view a data field without making changes: Enter [#] + **Field No.** Data will be displayed for that field.

To delete an entry in a field: Enter [*] + Field No. + [*]. (Applies only to fields *40–*44, *88 and *94).

Mechanics of Programming

Interactive Menu Mode Programming (✻56, ✻80, ✻81, ✻83, ✻84, ✻85)

Press [✻] + **interactive mode No.** (i.e., ✻56). The keypad will display the first of a series of prompts. A detailed procedure (with displays of prompts) is provided in later sections of this manual.

Interactive Mode	Used to Program
✻56 Enhanced Zone Programming Mode	Zone characteristics, report codes, and serial numbers
✻80 Device Programming Menu Mode	Powerline Carrier Devices
✻81 Zone List Menu Mode	Zone Lists for powerline carrier activation
✻83 Enhanced Sequential Mode	Secom Series transmitter serial numbers
✻84 Assign Zone Voice Descriptors	Voice descriptors for each zone
✻85 Record Custom Voice Descriptors	Up to 5 custom voice descriptors for zones

Loading Factory Defaults

To load the factory defaults, enter the Programming mode, press ✻97, then press number 1, 2, 3, or 4 to select from default tables 1-4 at the back of this manual, or press "0" if you are not selecting a default table.

If a default table is loaded, any data that has already been programmed into the system will be changed according to the default table selected!

✻96 resets all subscriber account numbers and CSID in preparation for an initial download.

Exiting Program Mode

✻98 inhibits re-entry into the Expert or Voice Prompt Programming modes using the Installer Code.

✻99 allows re-entry into the Expert Program mode using **Installer Code (4112) + 800** or into the **Voice Prompt Programming** mode using **Installer Code (4112) + 888**.

Note: After exiting program mode (or upon power-up), the system takes up to a minute to reset. To bypass the reset delay, press [#] + [0].

Pass-Thru Programming

This mode allows the Installer to use the LYNXR-IE keypad and display to program the communications device that is connected to the LYNXR-I. Refer to the communications device's installation instruction to determine whether this feature is supported.

Entering Pass-Thru Programming mode

1. After power-up, enter the **Installer Code (4112) + 899.**
2. Once you have entered Pass-Thru Programming mode "PtP" will be displayed on the keypad.
3. Refer to the Installation Instructions for the LRR/IP Communications Device being installed for additional programming information.

LYNXR-IE will abort this mode:

- When it receives an abort command from the new communications device.
- If it fails to communicate with an communications device after 20 attempts.
- 30 minutes after the last key has been pressed.

Zone Response Type Definitions

General Information

During programming, you must assign a zone type to each zone, which defines the way in which the system responds to faults in that zone. Zone types are defined below.

Type 00 Zone Not Used

Zone type 00 is used to program a zone that is not used.

Type 01 Entry/Exit Burglary #1

Zone type 01 is usually assigned to sensors or contacts on primary entry and exit doors.

Zone Characteristics:

- Entry delay #1 is programmable from 0-99 seconds (field ✻35).
- Exit delay is independently programmable from 0-99 seconds (field ✻34).
- Exit and entry delays when armed in AWAY or STAY mode.
- No entry delay when armed in STAY NO DELAY or AWAY NO DELAY mode.
- Exit delay regardless of the arming mode selected.

Type 02 Entry/Exit Burglary #2

Zone type 02 is usually assigned to sensors or contacts on which secondary entry and exit doors that might be further from the keypad (typically used for a garage, loading dock, or basement door).

Zone Characteristics:

- Entry delay #2 is programmable from 0-99 seconds (field ✻36).
- Exit delay is independently programmable from 0-99 seconds (field ✻34).
- Secondary entry delay, if armed in the AWAY or STAY mode.
- No entry delay when armed in the STAY NO DELAY or AWAY NO DELAY mode.
- Exit delay begins regardless of the arming mode selected.

Type 03 Perimeter Burglary

Zone type 03 is usually assigned to all sensors or contacts on exterior doors and windows.

Zone Characteristics:

- Instant alarm, when armed in AWAY, STAY, STAY NO DELAY, or AWAY NO DELAY mode.

Type 04 Interior, Follower

Zone type 04 is usually assigned to a zone covering an entry area (i.e.: foyer, lobby, or hallway) that one must pass upon entry (after faulting the entry/exit zone) to reach the keypad. It provides an instant alarm if the entry/exit zone is not violated first, and protects an area in the event an intruder has hidden on the premises before the system is armed, or gains access to the premises through an unprotected area.

Zone Characteristics:

- Delayed alarm (using the programmed entry/exit time) if entry/exit (types 01 or 02) or interior-with-delay (type 10) zone is faulted first.
- Instant alarm in all other situations.
- active when armed in AWAY or AWAY NO DELAY mode.
- Bypassed automatically when armed in STAY or STAY NO DELAY mode.

Type 05 Trouble by Day/ Alarm by Night

Zone type 05 is usually assigned to a zone that contains foil-protected doors or windows or covers a sensitive area (i.e.: stock room, drug supply room, etc.) It can also be used on a sensor or contact in an area where immediate notification of an entry is desired.

Zone Characteristics:

- Instant alarm, when armed in AWAY, STAY, STAY NO DELAY, or AWAY NO DELAY (night) mode.
- Provides a latched trouble sounding from the keypad and, if desired, a central station report during the disarmed state (day).

Type 06 24-hour Silent Alarm

Zone type 06 is usually assigned to a zone containing an Emergency button (silent emergency).

Zone Characteristics:

- Sends a report to the central station but provides no keypad display or sounding.

Zone Response Type Definitions

Type 07 24-hour Audible Alarm

Zone type 07 is usually assigned to a zone containing an Emergency button (audible emergency).

Zone Characteristics:
Sends a report to the central station, and provides alarm sounds externally and at the keypad.

Type 08 24-hour Auxiliary Alarm

Zone type 08 is usually assigned to a zone containing a button for use in personal emergencies or to a zone containing monitoring devices (i.e.: water or temperature sensors, etc.).

Zone Characteristics:

- Sends a report to the central station and provides an alarm sound at the keypad. (No bell output is provided and there is no keypad timeout.)

Type 09 Supervised Fire

Zone type 09 can be assigned to any wireless zone used as a fire zone. This zone type is always active and cannot be bypassed.

Zone Characteristics:

- Bell output will pulse when this zone type is alarmed.

Type 10 Interior with Delay

Zone type 10 is bypassed when the panel is armed in the STAY or STAY NO DELAY mode.

Zone Characteristics:

- Entry delay #1 (with programmed entry time) when armed in the AWAY mode.
- Entry delay begins whenever sensors in this zone are violated, regardless of whether an entry/exit delay zone was tripped first.
- No entry delay when armed in the AWAY NO DELAY mode.
- Exit delay regardless of the arming mode selected.

Type 20 Arm–Stay

Zone type 20 is a special-purpose zone type used with wireless pushbutton units.

Zone Characteristics:

- Exit delay regardless of the arming mode selected.
- System is armed in the STAY mode when the zone is activated.
- Zone number is sent to the central station as a user number when arming or disarming.

Type 21 Arm–Away

Zone type 21 is a special-purpose zone type used with wireless pushbutton units.

Zone Characteristics:

- System is armed in the AWAY mode when the zone is activated.
- Zone number is sent to the central station as a user number when arming or disarming.

Type 22 Disarm

Zone type 22 is a special-purpose zone type used with wireless pushbutton units.

Zone Characteristics:

- Disarms the system when the zone is activated.

Type 23 No Alarm Response

Zone type 23 can be used on a zone when a Powerline Carrier Device (e.g., X10) action is desired, but with no accompanying alarm (e.g., front door light).

Type 24 Silent Burglary

Zone type 24 is usually assigned sensors or contacts on exterior doors and windows where bells and/or sirens are NOT desired.

Zone Characteristics:

- Instant alarm, with NO audible indication when is armed in the AWAY, STAY, STAY NO DELAY, or AWAY NO DELAY mode.
- Report sent to the central station.

Note: Keypad beeps if the zone is faulted when system is disarmed and Chime mode is on.

Data Field Descriptions

Defaults (where applicable) are Indicated in bold text.
The following pages list all data fields in this Control (in numerical order). Use the blank programming form to record the data for this installation. Note that both keypad LEDs flash while in Programming mode.

Note: Entering a number other than one that is specified will give unpredictable results.

✻20	**Installer Code** Enter 4 digits, 0-9	The Installer Code is used to enter the 4-digit Master Security Code. See "Master Code" in the *System Operation* section for procedure. **Note:** LYNX does not allow duplication of Installer code. If a duplicate code is entered the entry is rejected and LYNX issues single long beep indicating rejection. The old installer code remains unchanged.
✻22	**Keypad Backlight Timeout** 0 = no timeout; always backlight keys 1 = turn backlighting off after inactivity	This option allows the choice of either always backlighting the keypad or turning the backlighting off after 10 seconds of keypad inactivity.
✻23	**Forced Bypass** 0 = no forced bypass 1 = provide automatic bypass of all open (faulted) zones	All zones bypassed by this function will be displayed after the bypass is initiated.
✻25	**Powerline Carrier Device (X10) House ID** 0 = A 4 = E 8 = I # + 12 = M 1 = B 5 = F 9 = J # + 13 = N 2 = C 6 = G # + 10 = K # + 14 = O 3 = D 7 = H # + 11 = L # + 15 = P	Powerline Carrier Devices require a House ID. This field identifies this House ID to the Control. The Powerline Carrier Devices are programmed in field ✻80.
✻26	**Chime by Zone** 0 = no (chimes on fault of any entry/exit or perimeter zone when Chime mode is activated 1 = yes (chimes on fault of those zones assigned to Zone List 3 when Chime mode on)	This option allows the installer to define the specific zones intended to chime when faulted while the system is in Chime mode. If enabled, these zones are defined in zone list 3 (see *✻81 Zone List Menu Mode*).
✻27	**Real Time Clock Display** 0 = do not display the time 1 = display the time	Refer to the User's Manual for setting the clock time and date.
✻28	**Power Line Frequency/Real Time Clock Time Base** 0 = 60 Hz, Real Time Clock runs from power line 1 = 50 Hz, Real Time Clock runs from power line 2 = 60 Hz, Real Time Clock runs from crystal 3 = 50 Hz, Real Time Clock runs from crystal	Select Power Line Frequency/Real Time Clock synchronization
✻29	**Daylight Savings Time Start/End Month** 0, 0 = no daylight saving time used 1-12 = start month and end month	Enter # + 10 for 10, # + 11 for 11, and # + 12 for 12.
✻30	**Daylight Savings Time Start/End Week** 0 = disable 4 = fourth weekend 1 = first weekend of month 5 = last weekend 2 = second weekend 6 = next to last 3 = third weekend 7 = 3rd from last	Enter the appropriate start and end weekend of the month.
✻31	**Single Alarm Sounding Per Zone** (per armed period) 0 = no limit on alarm sounding per zone 1 = limit alarm sounding to once per arming period for a given zone	This field applies only to burglary zones (zone response types 1-5, 10), and affects long range radio reporting but does not affect central station reporting. **Note:** This field applies only to the bell and does not affect keypad sounds.
✻32	**Fire Sounder Timeout** 0 = yes, fire sounder timeout after time programmed in field ✻33 1 = no fire sounder timeout; continue sounding until manually turned off	This Control complies with NFPA requirements for temporal pulse sounding of fire notification appliances. Temporal pulse sounding for a fire alarm consists of the following: 3 pulses – pause – 3 pulses – pause – 3 pulses. . .
✻33	**Alarm Bell Timeout** 0 = No timeout 2 = 8 min 4 = 16 min 1 = 4 min 3 = 12 min	This field determines whether the external sounder will shut off after time allowed, or continue until manually turned off.
✻34	**Exit Delay** 00-99 = exit delay time in seconds	The system will wait the time entered before sounding an alarm if the exit door is left open after the system has been armed.

Data Field Descriptions

∗35	**Entry Delay 01** 00-99 = entry delay time in seconds.	The system will wait the time entered before sounding alarm upon entering if system is not disarmed. **Note:** Entry delay should be less than 45 seconds in order to comply with EN50131.
∗36	**Entry Delay 02** 00-99 = entry delay time in seconds.	The system will wait the time entered before sounding alarm upon entering. **Note:** Entry delay should be less than 45 seconds in order to comply with EN50131.
∗37	**Audible Exit Warning/Quick Exit** **Exit Warning** 0 = no exit warning sound 1 = provide exit warning sound when armed AWAY **Quick Exit** 0 = no quick exit 1 = allow quick exit	Exit Warning: Sound consists of slow continuous beeps until last 5 seconds, when it changes to fast beeps. The warning sound will end at the termination of exit delay. Quick Exit: If enabled, user can restart the exit delay time after arming in STAY mode by entering the user code and pressing the **STAY** key. This avoids having the user disarm then re-arm the system after allowing someone to enter or exit
∗38	**Confirmation of Arming Ding** 0 = no ding 1 = confirmation ding after arming system 2 = confirmation ding after arming from RF button or RF keypad only	Confirmation of arming is provided by a 1/2 second external sounder "ding" that sounds when closing report is sent, or at the end of exit delay. If Option 2 is selected the external sounder "ding" occurs immediately after the system receives the RF transmission.
∗39	**Power Up In Previous State** 0 = always power up in a disarmed state 1 = assume the system status prior to power-down	When the system powers up armed, an alarm will occur 1 minute after arming if a zone is faulted, and any bypassed zones will be unbypassed. **Note:** If the previous state was armed **AWAY** or **STAY**, the system will not respond to sensor changes for 1 minute, which allows time for sensors such as PIRs to stabilize.

DIALER PROGRAMMING (∗40–∗50)

Fields ∗40, ∗41, ∗42: Enter up to the number of digits shown. Enter 0–9, # + 11 for '∗'; # + 12 for '#'; # + 13 for a pause (2 seconds), # + 14 for "+". Whenever AAV is used, primary (field ∗41) and secondary (field ∗42) phone numbers should be preceded with the call waiting disable command. Otherwise, there is the possibility of connection of the third party to LYNXR-IE during AAV mode.

∗40	**PABX access Code** Enter up to 6 digits if PABX is needed to access an outside line.	If fewer than 6 digits need to be entered, exit by pressing [∗]. To clear entries from field, press ∗40∗.
∗41	**Primary Phone No.** Enter up to 20 digits. **Note:** SMS phone numbers must have a maximum of 15 digits.	If fewer than 20 digits entered, exit by pressing [∗]. To clear entries from field, press ∗41∗. **Note:** Backup reporting (8 attempts are made to the secondary phone number if no kissoff is received after 8 attempts to the primary number) is automatic only if there is a secondary phone number (field ∗42).
∗42	**Secondary Phone No.** Enter up to 24 digits. **Note:** SMS phone numbers must have a maximum of 15 digits.	If fewer than 24 digits entered, exit by pressing [∗]. To clear entries from field, press ∗42∗. See backup reporting note for field ∗41.

All four digits of the Subscriber account number must be entered in Fields ∗43 and ∗44.

Fields ∗43 and ∗44:

Enter 0 as the first digit of a 4-digit account number for Nos. 0000–0999. Enter [∗] as the fifth digit if a 4-digit account number is used. Exit field by pressing [∗] if only 3 digits are used. To clear entries from field, press ∗43∗ or ∗44∗. See blank Programming Form for examples of account number entries. Enter digits 0–9; # +11=B; # +12=C; # +13=D; # +14=E; or # +15=F.

∗43	**Primary Subs account No.** Enter a four or ten digit account number.	Enter the primary subscriber account number. To clear entries from field, press ∗43∗.
∗44	**Secondary Subs account No.** Enter a four or ten digit account number.	Enter the secondary subscriber account number. To clear entries from field, press ∗44∗.

Data Field Descriptions

Field ∗46: Enter up to 24 digits. Do not fill unused spaces. Enter 0-9, #+11 for '*'; #+12 for '#'; #+13 for a pause (2 seconds), #+14 for special character

∗46	**"Follow Me Reminder" Phone Number** Enter up to 24 digits.	This option allows the user to schedule a time driven message. When activated the system will dial the phone number programmed and deliver a voice message (custom words 72, 73 and 74) over the vocal channel. This option always enabled. If PSTN and GSM vocal channels are available LYNXR-IE will use the PSTN line. If using the Follow Me Reminder feature, enter the phone number here. If fewer than 24 digits are entered, exit by pressing [∗]. To clear entries from the field press ∗46∗. The telephone message can be terminated (acknowledged) by pressing any key on the telephone keypad. Pressing any key on the local LYNXR-IE keypad will terminate (acknowledge) both the follow me and the local reminder announcements. **Note:** The follow me reminder announcement will be terminated if any other event requires the system to dial out or if an audible alarm has occurred.
∗47	**Phone System Select** See table below.	This option is used to enter the correct type of phone dialing (pulse or tone), and to select the correct WATS line option for the Central Station. This option is used to activate the Speaker Phone option. **Note:** If using pulse dialing, you must enter the numbers slowly in order to allow the pulse dialer time to operate.

Central Station	Dialing Mode			
	Pulse	Tone	Pulse	Tone
No WATS	0 = No Speaker Phone	1 = No Speaker Phone	4 = With Speaker Phone	5 = With Speaker Phone
WATS	2 = No Speaker Phone	3 = No Speaker Phone	6 = With Speaker Phone	7 = With Speaker Phone

Field ∗48: The following Event/Restore Messages will be sent to the Primary (Owner 1) and Secondary (Owner 2) Phone Numbers if GSM SMS (Option 4) is selected in this field. The associated Contact ID® Codes are also listed here.

Event SMS text	Restore SMS text	CID Code	Definition
Fire	- - -	110	Fire Alarm
Duress	- - -	121	Duress
Silent Emergency	- - -	122	Alarm, 24-hour silent
Audible Emergency	- - -	123	Alarm, 24-hour audible
Alarm	- - -	131	Alarm, Perimeter
Alarm	- - -	132	Alarm, Interior
Alarm Entry/Exit	Alarm Entry/Exit End	134	Alarm, Entry/Exit
Alarm	- - -	135	Alarm, Day/Night
Panel Tamper Alarm	Panel Tamper Alarm End	145	Cover Tamper Fail
8042 Panel Tamper Alarm	- - -	145	Expander Module Tamper Alarm
Alarm	- - -	146	Silent Burglary
Emergency	- - -	150	Alarm, 24-hour Auxiliary
AC Power Fault	AC Power Fault End	301	AC Power
Panel Low Batt	Panel Low Batt End	302	Low system battery
Panel Tamper Trouble	Panel Tamper Trouble End	341	Cover Tamper Fail When Disarmed
RF Jam	RF Jam End	344	RF Jam Detected
Phone Fail	Phone Fail End	351	Phone Line Failure
Communication failure	Communication failure end	353	ECP communication failure
Fire Loop Trouble	Fire Loop Trouble End	373	Fire Loop Trouble
Exit Alarm	- - -	374	Exit Error Alarm
Global Trouble	Global Trouble End	380	Global Trouble, Trouble Day/Night
RF supervision trouble	RF supervision End	381	RF Supervision Trouble
RF sensor tamper	RF sensor tamper End	383	RF Sensor Tamper (Trouble)
RF Sensor: Low Batt	RF Sensor: Low Batt End	384	RF Sensor Low Battery
Armed AWAY	Disarmed	401	Disarmed, Armed AWAY (NO DELAY), Armed AWAY
Scheduled Arm	- - -	403	Scheduled Auto Arm
Alarm canceled	- - -	406	Cancel by user
Remote Armed	Remote Disarmed	407	Remote Arm/Disarm (Downloading)
Armed Away	- - -	408	Quick Army Away/No Delay
Armed STAY	Disarmed	441	Disarmed/Armed STAY/NO DELAY
Bypass	Bypass End	570	Bypass
Not Applicable	- - -	602	Periodic Test
Not Applicable	- - -	606	AAV to follow
Not Applicable	- - -	607	System Test
Not Applicable	- - -	623	Event Log 80% Full
Syst Inactivity	Syst Inactivity End	654	System Inactivity
System not yet disarmed	- - -	- - -	System has not been disarmed
8042 SMS System Manual Message	- - -	- - -	SMS System Manual Message
SMS System Manual Message	- - -	- - -	SMS System Manual Message

Data Field Descriptions

✻48	**Report Format for Primary/Secondary** **Primary** | **Secondary** See choices below | See choices below 0 = PSTN Digital (ADEMCO Contact ID®) 1 = PSTN Vocal 2 = GSM Digital (ADEMCO Contact ID®) 3 = GSM Vocal 4 = SMS (Short message Service) **Note:** Option 0 or 1 (PSTN) must be used for Site initiated uploading/downloading, Remote Phone Control and Speaker Phone options.	The field is a two-digit entry field. It separately defines the Primary and Secondary report channels. The dialing options included with the LYNXR-IE allow you to send reports to either a Central Station or to a private phone either as the Primary or Secondary phone number. When dual reporting is selected and AAV is enabled, report will go to the primary destination and then the AAV session will be established on the secondary destination. If the second destination is not a Central Station the AAV will not be established. If options 1, 3 or 4 is entered as the first or second entry (or as both), the User will receive messages as defined in Field *49. Example: to select PSTN Vocal as the Primary and GSM SMS as the Secondary enter "14". **Notes:** (1) The maximum number of alarm and alarm restore reports during one armed period is determined by field ✻92. (2) Option 0 (PSTN Digital), 2 (GSM Digital)must be selected for AAV. (3) The control validates the data entered in this field. If the selection is not valid the control will emit a single long beep indicating that the selection has been rejected. The control replaces the selection with the default value, which is displayed on the keypad, and advances to the next field. 0 = PSTN Digital: DTMF Contact ID reporting to central station only, including two way audio alarm verification voice session (if option is enabled). 1= PSTN Vocal: Follow me voice system announcements to Primary and Secondary (Owner 1 and 2) phone numbers only (system current status announcements to the owner phone). Silent alarm announcement will be "SILENT POLICE". **Note:** This format does not provide a two-way voice capability for the owner. 2 = GSM Digital: Contact ID reporting over the audio channel of the GSM. To central station only, including two way audio verification voice session (if option is enabled). **Note:** This option is the same as PSTN Digital but uses GSM digital for communication. 3 = GSM Vocal: Follow me voice system announcements to Primary and Secondary (Owner 1and 2) phone numbers. System sends current status announcements to the owner phone, except silent alarm announcement that is not sent over the owner phone. Silent alarm announcement will be "SILENT POLICE". **Note:** This option is the same as PSTN Vocal but uses the GSM for communication and does not provide two way voice capabilities for the owner. 4 = SMS: Short Message Service messages are sent to Owner 1 and 2 phone numbers only. There is no two way voice capability. **Note:** The SMS message is not acknowledged. In addition the receiving mobile phone must be active on the network in order to receive the message. SMS messages format: XXXX "SMS text" NN where: XXXX = Primary or Secondary subscriber account number NN = Zone or the User number

Data Field Descriptions

<table>
<tr>
<td>✻49</td>
<td>Split/Dual Reporting
<table>
<tr><th>To Primary</th><th>To Secondary</th></tr>
<tr><td>0 = All reports</td><td>None, unless primary fails, then all</td></tr>
<tr><td>1 = Alarms, Restore, Cancel</td><td>Others</td></tr>
<tr><td>2 = All except Open/Close, Test</td><td>Open/Close, Test</td></tr>
<tr><td>3 = Alarms, Restore, Cancel</td><td>All</td></tr>
<tr><td>4 = All except Open/Close, Test</td><td>All</td></tr>
<tr><td>5 = All reports</td><td>All</td></tr>
</table></td>
<td>This field is used to select a reporting option.
When IP Digital Report Format (Option 5) is selected in Field *48, the selections in *49 are limited to 0-2.
Note: This eliminates the possibility of duplicate reports being sent to the same Central Station.
When dual reporting is selected and AAV is enabled, report will go to the primary destination and then the AAV session will be established on the secondary destination. If the secondary destination is not a Central Station, the AAV will not be established.
Note: The control validates the data entered in this field. If the selection is not valid the control will emit a single long beep indicating that the selection has been rejected. The control replaces the selection with the default value, which is displayed on the keypad, and advances to the next field.</td>
</tr>
<tr>
<td>✻50</td>
<td>15-Second Dialer Delay (Burglary)
0 = no dialer delay
1 = provide 15-second delay of burglary alarm report when armed away</td>
<td>If enabled, provides delay of burglary report to the central station, and allows time for the subscriber to avoid a false alarm transmission. The delay applies only to zone type 3 and 5 alarms and not to zone type 24 alarms (silent burglary) or to 24-hour zone types 6, 7, and 8 (silent panic, audible alarm, auxiliary alarm), which are always sent as soon as they occur.</td>
</tr>
<tr>
<td>✻51</td>
<td>Periodic Test Report
0 = no test report
1 = once every 24 hrs
2 = weekly
3 = once every 30 days</td>
<td>Test report code entered in field ✻64 is sent.</td>
</tr>
<tr>
<td>✻52</td>
<td>First test Report Offset
0 = 24 hrs after exit program mode or download
1 = 6 hours after exit program mode or download
2 = 12 hrs after exit program mode or download
3 = 18 hrs after exit program mode or download</td>
<td>Select the time for the first report following programming or downloading.</td>
</tr>
<tr>
<td>✻54</td>
<td>Lack of Usage Notification
0 = Disabled
1 = 1 day
2 = 7 days
3 = 27 days
4 = 90 days
5 = 180 days
6 = 365 days
Note: There is no local annunciation indicating that this report has been sent to the Central Station.</td>
<td>If enabled, notifies the central station if an end user is not operating their security system by sending a System Inactivity report 654. The report will be sent only to the Primary phone number and only if Contact ID® format was selected.
Note: The report will follow the ✻49 = 0 rules, no matter which selection was made in ✻49.</td>
</tr>
<tr>
<td>✻58</td>
<td>RF Jam Detection
0 = no jam detection
1 = RF jam detection with event logging, but no central station report
2 = RF jam detection with event logging and with central station report (if trouble/restore report is enabled in fields ✻60, ✻71)</td>
<td>For Event Logging, Option 2 must be selected.
If the control detects an RF Jam condition, a “FAULT” message appears for zone 90. The Contact ID® code for RF Jam is 344.</td>
</tr>
</table>

SYSTEM STATUS AND RESTORE REPORT CODES PROGRAMMING (✻59 – ✻76, & ✻89)

Program Report Codes using the interactive ✻56 Enhanced Zone Programming Mode, or codes can be entered in data fields ✻59-✻76, ✻89. The following is a set of guidelines when programming report codes. The actual report code digits that you enter depend upon the particular installation, and should be in agreement with you and the central station office receiving the signals.

Enter a digit in the first box to enable the zone to report. Use a different digit for each zone until you have used up available digits. If the number of zones exceeds the number of available digits, begin with digit 1 again. This is an "enabling" code only and is not the actual code sent to the central station office. Entries in the second boxes will be ignored. For system status (non-alarm) codes, enter a “1” in the first box for all the system conditions you want to send to the central station. A "0" in the first box disables the report.

Data Field Descriptions

✻59	**Exit Error Report Code** (See programming notes)	If the system is armed and an entry/exit or interior zone is still open after the exit delay time has expired, an alarm will sound at the keypad and external sounder. If the system is disarmed before the end of the entry delay that immediately follows, the alarm sounding will stop and no message will be sent to the central station. The keypad will display "CA (CANCELED ALARM)." If the system is not disarmed before the end of the entry delay mentioned above, and an entry/exit or interior zone is still open, an "exit alarm" message will be sent to the central station if an Exit Error report code is selected in this field. The keypad will display "EA (EXIT ALARM)," and the alarm sounding will continue until the system is disarmed (or timeout occurs). An Exit Alarm condition will also result if a fault occurs in an exit or interior zone within 2 minutes following the end of the exit delay, and an "Exit Alarm" message will be sent to the central station. The message will contain the zone number and error code 374 (Trouble–Exit Error). This message will go to the primary phone no. Under any of these conditions, no restore message will be sent. If "0" is entered in this field, no special message will be sent, only the regular alarm and alarm restore code for the zone.
✻60	**Trouble Report Code** (See programming notes)	This will be sent if a zone goes into trouble.
✻61	**Bypass Report Code** (See programming notes)	This will be sent when a zone is manually bypassed.
✻62	**AC Loss Report Code** (See programming notes)	Timing of this report is random with up to a 4-hour delay. If AC restores before the report goes out, there is no AC restore report.
✻63	**Low Battery Report Code** (See notes above)	This will be sent when a low battery condition exists in the system's standby battery.
✻64	**Test Report Code** (See programming notes)	This is sent periodically to test that the communicator and phone lines are operational (frequency of report is selected in field ✻51).
✻65	**Open Report Code** (See programming notes)	This is sent upon disarming of the system.
✻66	**Arm AWAY/STAY Report Code** (See programming notes)	This option allows for independent programming of AWAY and STAY reports. **Note:** OPEN reports are not sent if the associated closing report is not enabled.
✻67	**RF transmitter Low Batt. Report Code** (See programming notes)	This is sent in the event that a wireless transmitter low battery condition exists.
✻68	**Cancel Report Code** (See programming notes)	This is sent upon disarming of the system after an alarm condition was reported.

RESTORE REPORT CODES (✻70–✻76)

✻70	**Alarm Restore Report Code, 1st Digit** (See programming notes)	Sent when the zone that caused an alarm is restored to its non-faulted condition.
✻71	**Trouble Restore Report Code** (See programming notes)	Sent when a trouble in a zone is restored.
✻72	**Bypass Restore Report Code** (See programming notes)	Sent when a zone that has been bypassed is unbypassed.
✻73	**AC Restore Report Code** (See programming notes)	Sent when AC power has been restored after an AC power outage.
✻74	**Low Battery Restore Report Code** (See programming notes)	Sent when a system low battery condition is restored to normal.
✻75	**RF Transmitter Low Batt. Restore Code** (See programming notes)	Sent when a transmitter that previously sent in a "low battery" message has sent a message indicating it no longer has a low battery condition.
✻75	**RF Transmitter Low Batt. Restore Code** (See programming notes)	Sent when a transmitter that previously sent in a "low battery" message has sent a message indicating it no longer has a low battery condition.

Data Field Descriptions

✻76	**Test Restore Report Code** (See programming notes)	Sent when the test mode is exited. A restore code entered here will cause a restore message to be sent when Test mode is exited.
✻78	**Programmable Tone Generation Time** 00 = Disabled 01-09 = 100-900 ms 10-99 = 1.0 – 9.9 secs.	This field is used to set the time delay between when a connection is established on a Radio (digital communication with voice capabilities) session to when the 2100 Hz "training" tone is terminated. Enter any digit between 00 and 99. **Note:** This field only applies when a GSMVL radio is installed in the control. Otherwise, enter "00" to disable.
✻82	**Telephone Line Monitor** **1st Entry** 0 = Immediate detection (approx. 10 sec. detection time) 1 - 4 = Delayed detection (delay in minutes) **2nd Entry** 0 = No response (phone line monitor disabled) 1 = Keypad display only 2 = Keypad display and keypad trouble sound 3 = Keypad display and keypad trouble sound, when disarmed. Alarm, when armed	An event (CID 351) is logged when system detects a Telco fault. Upon restore, report is sent and the event is logged. The phone line monitor is zone 94. First entry defines phone line failure detection time. Second entry defines response to phone line failure.
✻87	**AUX Function/Manual Message** 0 = Aux key performs defined function (macro) 1 = Aux key sends a voice message to Follow Me reminder phone number	If "0" is entered, user can define a macro function for the AUX key. See user manual for description of the use of this key. If "1" is entered the system will send manually activated messages if Option 1, 3 or 4 has been selected in Field *48 for at least one of the report channels. The Follow Me reminder uses the PSTN line if at least one of the report channels uses the PSTN line. Otherwise the reminder will be sent using the GSM Vocal line. The manual follow me system announcement is a repeatable "System, System…..". **Note:** A macro cannot be run from the Test mode.
✻89	**Event Log 80% Full Report Code** (See programming notes)	If an Event Logging selection is made in field ✻90, a message can be sent to the central station receiver when the log is 80% full. If the log becomes full, a new message will overwrite the oldest message in the log. **Note:** All control and readout from the log, aside from the selection made by the installer in field ✻90, is accomplished via the downloader.
✻90	**Event Logging Options** 0 = No event logging 1 = log Alarm/Alarm Restore 2 = log Trouble/Trouble Restore 4 = log Bypass/Bypass Restore 8 = log Open/Close x = log combination of events (add value of entries)	Example: To select "Alarm/Alarm Restore" and "Open/Close," enter 9 (1 + 8); to select all events, enter #15. Default "3" = alarm/alarm restore (1) plus trouble/trouble restore (2). The system has the ability to record various events in a history log (84-event capacity). The types of events to be logged can be selected as indicated. At any time, the downloader operator can then upload the log and view or print out all or selected categories of the log. The log can also be cleared by the download operator. The display/printout at the central station will show the date, time, event, and description of the occurrences. **Note:** System messages are logged when any non-zero selection is made.
✻91	**Audio Alarm Verification (AAV)/Remote Phone Control** 0 = none 1 = AAV and remote phone control 2 = remote phone control only 4 = AAV only **Notes (**1) Audio Alarm Verification will only function when Contact ID® is selected. (2) AAV and Remote Phone Control features can only be used if the central station or remote phone supports DTMF commands.	This option is used to enable the Audio Alarm Verification and/or the Remote Phone Control features. **Notes:** (1) In order to activate the Remote Phone Control feature and defeat an answering machine, ensure that the correct ring detection count ("15") has been programmed in field ✻95. (2) Remote phone session will be terminated if a report must be sent. (3) If an alarm will be reported to primary and secondary phone numbers, AAV can only function via the secondary number.

Data Field Descriptions

✻92	**Number of Reports In Armed Period** 0 = reports limited to a total of 10 1 = unlimited number of reports	This option can be used to limit the number of messages (alarm & alarm restore reports) sent to the central station in an armed period. **Note:** This field does not apply if SMS or IP Digital report formats have been selected in field *48.
✻93	**Flexible Callback** 0 = no flexible callback 1 = last digit flexible 2 = last 2 digits flexible 3 = last 3 digits flexible	**Note:** This feature only applies to telephone downloading If enabled, the control will ignore the last 1, 2, or 3 digits of the programmed callback number (field ✻94) during a single download session. This allows the download operator to temporarily change the callback phone number by the number of digits selected, which allows the control to call back similar, but different numbers during a single session. For example, if downloading to a large number of controls, the operator can command the controls to call back phone numbers 555-1111, 555-1112, 555-1113, etc., thus spreading the communications among several computers.

DOWNLOAD INFORMATION (✻94, ✻95)

✻94	**Download Call Back Phone Number** Enter up to 20 digits as follows: 0–9, # +11 for "*", # + 12 for "#", # + 13 for a pause.	This is the phone number the control will use to call back the downloading computer. Do not fill unused spaces. End field by pressing ✻. To clear entries from field, press ✻94✻.
✻95	**Ring Detection Count For Downloading/ Remote Phone Control** 0 = disable station initiated download and remote phone 1-14 = number of rings before control picks up phone line 15 = defeat answering machine	Enter "15" to select defeat answering machine mode. If an answering machine is on the premises, you need to dial the premises and hang up on the first ring. Wait at least five (5) seconds (but no more than 22 seconds) and dial the premises phone number again. The control will pick up and announce "SYSTEM ENTER CODE" every three seconds. **Note:** To enter a number higher than 9 you must first press the [#] key.

OTHER PROGRAMMING COMMANDS

✻56 ENHANCED ZONE PROGRAMMING MODE
Interactive menu mode used for programming zone attributes and report codes. Refer to the *✻56 Enhanced Zone Programming Mode* section for procedure.

✻80 DEVICE PROGRAMMING MENU MODE
Interactive menu mode for programming Powerline Carrier Devices. Refer to the *✻80 Device Programming Menu Mode* section for detailed procedure.

✻81 ZONE LISTS MENU MODE
Interactive menu mode for programming zone lists for Powerline Carrier Devices. Refer to the *✻81 Zone List Menu Mode* section for detailed procedure.

✻83 ENHANCED SEQUENTIAL MODE
Interactive menu mode used to enter RF transmitter serial numbers. Refer to the *✻83 Enhanced Sequential Mode* section for detailed procedure.

✻84 ASSIGN ZONE VOICE DESCRIPTORS
Interactive menu mode used to assign descriptors to each zone. These descriptors will be announced whenever the system announces an event involving a zone.

✻85 RECORD CUSTOM VOICE DESCRIPTORS
Interactive menu mode used to record custom descriptors for use with each zone.

✻96 INITIALIZE DOWNLOAD ID AND SUBSCRIBER ACCT. NO. FOR DOWNLOADING
Pressing ✻96 initializes the system for downloading.

✻97 SET ALL PROGRAM FIELDS TO 1 OF 4 SETS OF DEFAULT VALUES
See Default Tables at the end of this manual.

✻98 EXITS PROGRAMMING MODE
Prevents re-entry by: Installer Code + 8 + 0 + 0; allows re-entry only by Power-up, then [✻] and [#].

✻99 EXITS PROGRAMMING MODE
Allows re-entry to program mode by: Installer Code + 8 + 0 + 0; or by Power-up, then [✻] and [#].

✻56 Enhanced Zone Programming Mode

This is an interactive menu mode that is used to program zone numbers, zone types, alarm and report codes, and to identify the type of loop input device. This mode can also be used for entering Secom Series transmitter serial numbers.

Note: There are two methods for entering transmitter serial numbers. The first method is by using ✻56 Enhanced Zone Programming mode (described below). The second method is by using ✻83 Enhanced Sequential Mode. Note that the ✻83 Enhanced Sequential Mode requires that all zone information first be entered using ✻56 Enhanced Zone Programming mode.

You must refer to these instructions or to the Program Form while programming the system because the keypad display does not show prompt titles. Instead, prompts are indicated by a number/letter combination. The prompts for ✻56 are as follows:

A 02	Zone Number---------- for entering the zone number
b	Zone Type ---------- for entering zone type
C	Report Code---------- for entering the zone's report code
d	Input Type ---------- for entering the transmitter's input type
E	Loop Number---------- for entering the transmitter loop number
F	Delete Serial Number? ---------- For deleting existing serial number
1A	Enroll Mode? ---------- Selects serial number enroll mode
1b	Serial Number ---------- for entering transmitter's serial number
1C	Voice Descriptor?---------- Selects voice descriptor mode
1d	Descriptor 1---------- for entering first descriptor word
1E	Descriptor 2---------- for entering second descriptor word
1F	Descriptor 3---------- for entering third descriptor word

✻56 Enhanced Zone Programming Mode

While in Program mode, press ✻56 to enter Zone Programming Menu Mode.

Refer to the zone assignment table for ✻56 on the separate programming form. The following explains the ✻56 prompts in detail. The left two columns identify the prompts and list the available entries for each. The right-most column provides a further explanation of the entries.

If you are enrolling a CSK800HF Keypad refer to the "Enrolling the CSK800HF Monodirectional Keypad" section.

A 02	**Zone number** 02-41, 95, 96, 99 = Zone number [✻] = continue 00 = exit Zone Programming mode	Enter the 2-digit zone number to be programmed and the Voice Descriptor for the selected zone number will be announced, if it is programmed. Press [✻] to advance. • Zones 02-25 = RF zones (only) • Zones 26-41 = Button zones (only) • Zone 92 = Duress • Zone 94 = Phone Line Monitor • Zone 97 = Case Tamper • Zones 95, 96, 99 = Panic zones Pressing 00 exits mode, upon which the prompt "56" blinks, indicating the mode is inactive. Press [✻] + any field number to go to that field.
B zt	**Zone type** 00-24 = zone type [✻] = continue [#] = return to previous prompt **Note:** If 00 is accepted as a zone type, save the 00 zone type and advance to the confirm delete prompt (F).	Each zone must be assigned to a zone type, which defines the way in which the system responds to faults in that zone. Enter the 2-digit zone type for this zone as follows: 00 = Not Used 01 = Entry/Exit #1 02 = Entry/Exit #2 03 = Perimeter 04 = Interior Follower 05 = Trouble Day/Alarm Night 06 = 24 Hr Silent 07 = 24 Hr Audible 08 = 24 Hr Aux 09 = Fire without verify 10 = Interior w/Delay 20 = Arm–Stay 21 = Arm–Away 22 = Disarm 23 = No Alarm Response 24 = Silent Burglary **If you are enrolling….. / Program as …..** DOD800GY Door/Window Sensor → ZT 03 (Perimeter) IRX800GY, IR800PIGY, IRPI800M Motion Sensor → ZT 04 or 10 (Interior) DTO800HF Heat/Smoke Detector → ZT 09 (Fire) TC805HF Remote Keyfob → ZT 20 (Arm-Stay), ZT 21 (Arm-Away), ZT 22 (Disarm), ZT 23 (No Alarm Response) Refer to the Installation Guide provided with the wireless device for additional information.
C rc	**Report code** Enter the report code for this zone. [✻] = continue [#] = return to previous prompt	Report codes consist of 2 hexadecimal digits, each in turn consisting of 2 numerical digits. To enter report code of "3C", enter [0] [3] for "3" and [1][2] for "C". **Note: If this is Zone 95, 96 or 99, the system skips to the VOICE DESCRIPTOR prompt (1C).**
d i	**Input type** 3 =RF (supervised RF) – sends periodic check-in signals, faults, restore and low battery signals 4 = UR (unsupervised RF) – sends same as "RF" type, but control does not supervise the check-in signals 5 = BR (button type) – sends only fault and low battery signals; does not send restores or check-in signals [✻] = continue [#] = return to previous prompt **Note** RF type transmitters must remain within range of the receiver, otherwise a supervision failure signal will occur. UR and BR type transmitters may be carried off premises (out of range without causing a supervision failure.	Enter the input type for the transmitter assigned to this zone. Refer to the transmitter's instructions for input types of each transmitter. **If you are enrolling….. / Program as …..** IRX800GY, IR800PIGY, IRPI800M Motion Sensor OR DOD800GY Door/Window Sensor OR DTO800HF Heat/Smoke Detector → 3 (Supervised RF) TC805HF Remote Keyfob → 5 (BR Button Type) Note: Zones 2-25 should be assigned Input Type 3 or 4. Zones 26-41 should be assigned Input Type 5 only.

✻56 Enhanced Zone Programming Mode

E 1

Loop number or Loop and Serial number (if using RF Learning)
1-4 = loop number for the zone of the transmitter being entered.
0 + [✻] = continue to DELETE ZONE PARAMETERS CONFIRMATION prompt (F)
[✻] = continue to the ENROLL MODE prompt (1A) if not entered, or VOICE DESCRIPTOR prompt if already entered
[#] = return to previous prompt

This prompt can be used to enroll loop number and serial number via RF transmission or the loop number can be enrolled manually. If using the RF Learning Mode, there is no need to manually enter a loop number. Proceed directly to RF Learning

Note: BR type devices cannot be enrolled by using UR or RF type. Likewise, UR or RF type devices cannot be enrolled by using a BR type device. There is a 52-second time-out for RF enrolling. At the end of the time-out, the system returns to the INPUT TYPE prompt (d). If enrolled, loop number and "L" are displayed.

RF Learning – Two (2) transmissions (2 key depressions) at least 5 seconds apart will be required for BR type devices (device type 5). Two beeps will sound after the second transmission, confirming that the loop number and serial number have been learned.

For UR or RF type devices, four (4) transmissions are required (fault, restore and fault, restore). A single beep will sound after the second transmission confirming that the loop and serial number have been captured. Following the fourth transmission the system will confirm that the loop number and serial number have been learned and announce the Voice Descriptor for the zone, if it is programmed, followed by two beeps. Press [✻] to continue.

With the exception of the panic function, the TC805HF does not transmit until the buttons have been released. The panic functions transmit as soon as the two-button combination is depressed. Each button of the keyfob must be enrolled individually.

If you are enrolling....	Transmit two fault, restore (open, close) sequences by....
IRX800GY, IR800PIGY, IRPI800M Motion Sensor OR DOD800GY Door/Window Sensor	Faulting the sensor's tamper switch. Refer to the Installation Guide provided with the wireless device for additional information.
DTO800HF Heat/Smoke Detector	1. Insert the detector head into the base by turning it clockwise. This will activate the tamper switch. 2. Wait 10 seconds. 3. Unscrew the detector head by turning it counterclockwise. 4. Repeat steps 1 – 3 to confirm the serial number.
TC805HF Remote Keyfob	Pressing and and releasing the selected button. Wait approximately four seconds before pressing the button again. The "fifth" (panic) button transmits with a different serial number. To enroll the phantom "fifth" button, press and hold both "SOS" buttons.

Manual Entry – Enter the desired loop number and press [✻] to continue (see the transmitter's Installation Instructions for specific loop designations).

Note: The loop number can be changed even if the zone has already been entered. Care should be taken when using this feature as it has the capability to make zones inoperable by creating a mismatch of a working serial number/loop number combination. This should be re-confirmed if the loop number is changed.

"L" indicates that the zone's serial number has already been enrolled.

✻56 Enhanced Zone Programming Mode

F	**Delete zone parameters confirmation** 0 = discard the delete request 1 = confirm requested delete Note: If 00 was entered as a zone type in prompt (b), 00 will be retained and system will advance to prompt (1C).	This function deletes either the serial number or all zone information that is programmed for the zone. If "00" was entered in the zone type, the confirmation of the delete request will delete all information associated with the zone currently being programmed. If "0" was entered in the loop number, the confirmation of the delete request will delete the serial number of the zone currently being programmed.
1A LC	**Enroll mode** 0 = advance to the VOICE DESCRIPTOR prompt (1C). **Note:** This will save all zone parameters. 1 = enter now and proceed to SERIAL NUMBER prompt (1b). **Note:** Not applicable if the serial number is already present. 2 = copy the last serial number entered into local ram. **Note:** If this is the 1st zone, none will be in the buffer and the panel will emit a long tone. Not valid if serial number is already present. 3 = view existing serial number. **Note:** Only if "*L*" is displayed. If "*L*" is not displayed, panel will emit a long beep. 9 = advance to F; delete existing serial number. **Note:** Only if "*L*" is displayed. If "*L*" is not displayed, panel will emit a long beep. [✻] = advance to the VOICE DESCRIPTOR prompt (1C). This will save all zone parameters. [#] = return to the LOOP NUMBER prompt (E). **Note:** In order for all entered parameters to be accepted, you must advance to the VOICE DESCRIPTOR prompt (1C).	If "L" is displayed, the serial number for this transmitter has already been entered. It may, however, still be viewed, confirmed (only if in listen mode), or deleted. **View serial number** Enter "3". Each digit will be redisplayed, and the keypad will beep once for digits 1-6, and three times for the last digit. **Confirm serial number** The serial number/loop number combination can be confirmed after one transmission from a BR type device or two transmissions (fault and restore) from a UR or RF type device. If a transmission is received that matches the serial number and loop number entered, the system will confirm the reception by announcing the Voice Descriptor for the zone, if it is programmed, followed by three beeps, and a "C" will appear on the display indicating the received serial number and loop number have been confirmed. No further transmissions will be received. **Delete serial number** The serial number can be deleted by entering "9". If "L" is not displayed, the serial number for this transmitter has not been previously entered. You may enter the serial number manually, copy the previous serial number, return to Prompt (E) or enter the serial number later using the ✻83 Enhanced Sequential Mode. **Manual entry** Enter "1" to advance to Serial number prompt (1b). **Copy the previous serial number** Enter "2" to copy the previous serial number entered. **Return to Prompt (E)** Enter "#" to return to Loop Number prompt (E). **Enter transmitter later** Enter "0" or "✻" if you wish to enter the transmitter later, using the ✻83 Enhanced Sequential Mode described later in this manual. **Notes:** (1) The panel will listen only when it is in the idle loop waiting for key entry and a serial number has been entered. If a key is entered, the function must be completed and the panel will listen again. (2) A long beep indicates illegal entry or duplicate serial number/loop entry

✻56 Enhanced Zone Programming Mode

1b	**Serial number** Enter the transmitter's 7-digit serial number. [#] = return to prompt 1A and reject any serial numbers entries that have been made. [✻] = return to prompt 1A, (if a valid serial number has been entered, the "*L*" is displayed and the serial number will be copied into EEROM from the last serial entered into the buffer.) **Note:** This prompt can be used only to manually enroll a serial number. RF enrollment will be rejected and the current zone descriptor will be announced, followed by a single long beep and the system will return to prompt (1A).	In this mode, the transmitter serial numbers can only be entered manually. Enter the 7-digit serial number printed on the transmitter. If an incorrect digit is entered, press the [#] key to backup to prompt (1A) and start over. When all 7 digits are entered, press the [✻] key. If 52 seconds passes and no entry has been made, the system returns to prompt (1A). **Notes**☹1) If the serial and loop number combination is already present the keypad will emit a single long beep and the system will return to the (1A) prompt and "L" will be displayed. (2) If less than 7 digits have been entered, the keypad will emit a single long beep and return to the (1A) prompt without displaying the "L". (3) If more than 7 digits have been entered, the first 6 digits will be saved along with the last digit that was entered (entering 123456789 yields the serial number 1234569).
1C	**Voice descriptor** 0 = skip to next zone (A) 1 = enter descriptor mode; existing descriptor for this zone will be announced	Each zone can have a voice descriptor of up to 3 words that will be announced whenever the system announces status for that zone.
1d vi	**Descriptor 1** Enter [#] + 2-digit vocabulary index number† of first descriptor word for this zone. 6 = accept word and advance to descriptor 2 (descriptor 2 will be announced) 8 = accept word and advance to next zone (prompt A) – entire zone descriptor will be announced Press any other key to repeat the selected word.	† see ✻*84 Assign Zone Voice Descriptors* section for vocabulary index Use the [6] or [8] key to advance as described. To change the entered index number before pressing [6] or [8], simply press [#] + desired 2-digit vocabulary index number. If descriptor 1 is not desired, enter [#] + 99 (blank), then press [8] to return to zone number prompt.
1E vi	**Descriptor 2** Enter [#] + 2-digit vocabulary index number† of second descriptor word for this zone. 6 = accept word and advance to descriptor 3 (descriptor 3 will be announced) 8 = accept word and advance to next zone (prompt A) – entire zone descriptor will be announced Press any other key to repeat the selected word.	† see ✻*84 Assign Zone Voice Descriptors* section for vocabulary index Use the [6] or [8] key to advance as described. To change the entered index number before pressing [6] or [8], simply press [#] + desired 2-digit vocabulary index number. If descriptor 2 is not desired, enter [#] + 99 (blank), then press [8] to return to zone number prompt.
1F vi	**Descriptor 3** Enter [#] + 2-digit vocabulary index number† of third descriptor word for this zone. 6 or 8 = accept word and advance to next zone (prompt A) – entire zone descriptor will be announced Press any other key to repeat the selected word.	† see ✻*84 Assign Zone Voice Descriptors* section for vocabulary index Use the [6] or [8] key to advance as described. To change the entered index number before pressing [6] or [8], simply press [#] + desired 2-digit vocabulary index number. If descriptor 3 is not desired, enter [#] + 99 (blank), then press [8] to return to zone number prompt.

✻80 Device Programming Menu Mode

Powerline Carrier devices (e.g.; X10 brand devices) are programmable switches that can be used to perform many different functions. They can be used to turn lights on and off, control sounders, or for status indications. In this system, each device must be programmed as to how to act (ACTION), when to activate (START), and when to deactivate (STOP). Each of these is described below.

The control supports a total of 8 output devices.

The K10145X10 transformer sends signals from the control panel through the premises AC wiring to the Powerline Carrier Devices (which are plugged into AC outlets). Devices plugged into Powerline Carrier Devices can then be made to perform various functions in response to commands entered at the keypads in the security system.

Programming Options Defined

The following will help you understand the programming of output devices when using ✻80 and ✻81 modes.

ACTION The "ACTION" of the device is how the device will respond when it is activated by the "START" programming. There are four different choices of actions:

- ACTIVATE for 2 SECONDS and then reset.
- ACTIVATE and REMAIN ACTIVATED until stopped by some other event.
- PULSE ON and OFF until stopped by some other event.
- NOT USED when the device is not used.

START The "START" programming determines when and under what conditions the device will be activated. The following START options are available:

Start by Event

1. Event is the condition (alarm, fault, trouble) that must occur to a zone or group of zones (zone list) in order to activate the device. These conditions apply **only** when a zone list is used. The different choices for "EVENT" are listed below and in the "Programming Powerline Carrier Devices" paragraph that follows.
   - ALARM Device activates upon any alarm in an assigned zone in the zone list.
   - FAULT Device activates upon any opening or short in an assigned zone in the zone list.
   - TROUBLE Device activates upon any trouble condition in an assigned zone in the zone list.
   - NOT USED Device action is not dependent upon one of the above events.
2. A zone list is a group of zones to which the "EVENT" applies in order to activate a particular device. Note that there are a total of 3 output device-related zone lists that can be programmed in ✻81 menu mode; when the selected EVENT (alarm, fault or trouble) occurs in **any** zone in the selected "Start" ZONE LIST (1, 2, or 3), activation of the selected device will START.

Start by Zone Type or System Operation

- If a system operation, such as "DISARMING" or "ANY FIRE ALARM," is to activate the device, the appropriate choice would also be entered under the "ZONE TYPE" option. "ZONE TYPE" is used independently of the "EVENT/ZONE LIST" combination.
- If a "ZONE TYPE" is chosen, any zone of that response type going into alarm, trouble, or fault will cause the device to activate as selected in "ACTION." If the same "ZONE TYPE" is also chosen for the STOP programming, any zone of that type that restores will de-activate the device.
- If a "SYSTEM OPERATION" is chosen (e.g., End of Exit Time), that operation will cause the device to activate as selected in "ACTION." The different choices for "ZONE TYPE" and "SYSTEM OPERATION" are listed in the "Start zone type" paragraphs later in this section, and in the Programming Form.

✻80 Device Programming Menu Mode

STOP The "STOP" programming determines when and under what conditions the device will be de-activated. The following options are available:

Upon Restore of a Zone List
Restore Zone List: If a "ZONE LIST" is used as the "Stop" event, the device will de-activate when **all** the zones in that list restore from a previous fault, trouble, or alarm condition. This will occur regardless of what is programmed to "START" the device; therefore, a "RESTORE ZONE LIST" would normally only be used when a "ZONE LIST" is used to start the device.

Upon a Zone Type or System Operation
Zone Type/System Operation: Instead of using a "RESTORE ZONE LIST," a specific zone (response) type or system operation action can be selected to de-activate the device.

- If a specific "ZONE TYPE" is chosen, any zone of that response type that restores from a previous alarm, trouble, or fault condition will cause the device to de-activate.
- If a "SYSTEM OPERATION" is chosen, that operation will cause the device to de-activate.

During normal system operation, any devices may be manually started by keypad entry of: **Code* + [#] + 4 + "n;"** or manually stopped by keypad entry of: **Code* + [#] + 7 + "n,"** where "n" = the device number to be controlled.

* Code is required for devices 7 and 8. For devices 1-6, code is not required. See User Manual for more information.

Programming Powerline Carrier Devices

While in program mode, press ✻80 to enter Output Device Menu Mode. This mode is used to program all output devices used in the system. Refer to the output device table for ✻80 on the separate programming form when programming output devices.

Note: The House ID of the Powerline Carrier Devices must be entered in data field ✻25.

The prompts for ✻80 are as follows:

80	Powerline Carrier Device Programming Main Menu prompt
A 01	Device Number --------- for entering the device number
b	Device action ---------- for defining the action the device will perform when active
C	Start Event Type ------- for assigning the event type to start the action
d	Start Zone List ---------- for assigning the zone list to start the action
E	Start Zone Type--------- for assigning the zone type to start the action
F	Stop Zone List---------- for assigning the zone list to stop the action
1A	Stop Zone Type---------- for assigning the zone type to stop the action

✻80 Device Programming Menu Mode

The following explains these prompts in detail. The left two columns identify the prompts and list the available entries. The right-most column provides a further explanation of the entries.

Note: Entering a number other than one specified will give unpredictable results.

80	**Powerline Carrier Device programming** 0 = exit mode 1 = enter mode	Entering "1" advances to the next prompt below. Entering "0" exits mode, upon which this prompt blinks, indicating the mode is inactive.
A 01	**Device number** 01-08 = device number to be programmed [✻] = continue 00 = exit Device Programming mode	Enter device numbers as 2-digit entries.
B aa	**Device action** 0 = No response 1 = Close for 2 seconds 2 = Close and Stay Closed 3 = Continuous Pulse on & off (1 sec ON, 1 sec OFF) [✻] = continue [#] = return to previous prompt	Enter the 1-digit action (0-3) for the device being programmed (current action is displayed). **Notes:** (1) If "3" is entered (pulse), only up to 3 different devices can be pulsed if one of the devices is a siren/horn (X10 Powerhouse Security model SH10A). In addition, the siren/horn cannot be manually activated using the lights on/lights off keypad commands. (2) If using an X10 Powerhouse Security SH10A siren: • you must use device action "3." • you must change the device action default to "3" if using default Table 2 or 4
C et	**Start event type** 0 = Not used 1 = Alarm 2 = Fault 3 = Trouble [✻] = continue [#] = return to previous prompt	Enter the 1-digit event type (0-3) to activate the device being programmed. A zone list must be used in conjunction with an event. If a zone type/system operation is to be used instead of an event, enter "0".
D zl	**Start zone list** 1-3 = zone list number (to be programmed in field ✻81) 0 = zone list not used for this device [✻] = continue [#] = return to previous prompt	If a zone list will be used to start the device action, enter the zone list number at this prompt.
E zt	**Start zone type** 01-58 = zone type to start this device action (select only those that are applicable) 00 = zone type not used for this device [✻] = continue [#] = return to previous prompt	If a zone type or system operation will be used to start the device action, enter the appropriate 2-digit code for the device being programmed (see table that follows). **Choices for zone types** 00 = Not Used; 04 = Interior Follower; 08 = 24 Hr Aux 01 = Entry/Exit #1; 05 = Trouble Day/Alarm Night; 09 = Fire 02 = Entry/Exit #2; 06 = 24 Hr Silent; 10 = Interior w/Delay 03 = Perimeter; 07 = 24 Hr Audible; 24 = Silent Burglary **Choices for system operation** 20 = Arming–Stay; 33 = Any Alarm (except zt 08 & 09); 42 = Sys. Batt. Low 21 = Arming–Away; 36 = At Bell Timeout**; 43 = Comm. Failure 22 = Disarm. (Code + OFF); 38 = Chime; 52 = Kissoff 31 = End of Exit Time; 39 = Any Fire Alarm; 58 = Duress 32 = Start of Entry Time; 40 = Bypassing ** Or at Disarming (which ever occurs earlier)
F zl	**Stop zone list** 1-3 = zone list to stop this device action 0 = zone list not used [✻] = continue [#] = return to previous prompt	If a zone list will be used to STOP, or restore, the device action, enter the zone list number 1, 2, or 3 (to be programmed in ✻81 mode). If not used, enter "0".
IA zt	**Stop zone type** 01-58 = zone type to start this device action (select only those that are applicable) 00 = zone type not used for this device [✻] = continue [#] = return to previous prompt	If a zone type or system operation will be used to STOP the device action, enter the appropriate 2-digit code (see the "ZT" choices listed above). If not, enter 00. The display then returns to the DEVICE NUMBER prompt (A) so that you can enter the next device number to be programmed, or enter [0][0] to end device programming.

⁎81 Zone List Menu Mode

While in Program mode, press ⁎81 to enter Zone List Menu Mode. This mode is used to program zone lists for output devices (programmed in ⁎80 menu mode) or Chime-by-Zone in Zone List 3.

NOTES:
- Any list may include any or all of the systems zone numbers.
- A zone list can be assigned to more than one Powerline Carrier Device.

The prompts for *81 are as follows:

81	Zone List Programming----------	Main Menu prompt
A 01	Zone List Number ----------	for entering the zone list number to be programmed
b	Zone Entry to List ----------	for entering zones to the assigned zone list
C	Delete Entire List? ----------	For deleting the entire zone list and its contents
d	Delete Specific Zones From List?--------	Selects whether to delete zones or return to next zone list number
E	Delete Zones----------	for deleting specific zones from the current zone list

The following explains these prompts in detail. The left two columns identify the prompts and list the available entries. The right-most column provides a further explanation of the entries.

Notes: (1) Entering a number other than one specified will give unpredictable results.
(2) Do not assign zones with zone types 20, 21 or 22 to a zone list.

81	**Zone list programming** 0 = exit mode 1 = enter mode	Pressing 1 advances to the next prompt below. Pressing 0 exits mode, upon which this prompt blinks, indicating the mode is inactive.
A 01	**Zone list number** 01-03 = zone list number to be programmed 00 = exit Zone List mode [⁎] = continue	Enter the Zone List Number 01, 02, or 03 to program (or 00 if no zone lists are used).
B zz	**Zone entry to list** 01-41, 95, 96, 99 = zone numbers to add to zone list [⁎] = accept zone number and enter the next zone number 00 = accept zone number(s) and continue to next prompt	Enter each zone number to add to the zone list by first entering the zone number, then the [⁎] key (for example, 01⁎ 02⁎ 03⁎). The system will announce the Voice Descriptor for the selected zone, if it is programmed. After all desired zones are enrolled, enter "00" to advance.
C	**Delete entire zone list?** 0 = don't delete; continue to next prompt 1 = delete the current zone list	To delete the zone list, enter "1". All zones in the zone list will be deleted automatically and programming will return to the ZONE LIST NUMBER prompt. To save the zone list or delete specific zones from the list, enter "0".
D	**Delete zones from list?** 1 = continue to delete zones prompt 0 = don't delete; continue to next zone list number prompt (A….01) [#] = return to zone list number prompt (A….01)	To save the entire zone list, enter "0" and programming will return to the ZONE LIST NUMBER prompt. To delete a zone or zones in a zone list enter "1".
E	**Delete zones** Enter each 2-digit zone number to be deleted from the current zone list, followed by the [⁎] key. [⁎] = delete zone and enter next zone to be deleted 00 = delete zone and return to next zone list number prompt (A….01) desired	When deleting a zone(s) from the zone list, if the selected zone has a Voice Descriptor programmed, upon deletion it will be announced as a confirmation that it has been deleted. After all zones to be deleted are entered, enter "00" to return to the ZONE LIST NUMBER prompt so that another list can be programmed, if desired.

✻83 Enhanced Sequential Mode

By using this mode, you can add, delete, or change the serial number of a transmitter in a zone, but retain all other existing data that has been programmed for that zone. Note that the ✻83 Enhanced Sequential mode requires that all zone information must first be entered using the ✻56 Enhanced Zone Programming mode for all zones below zone number 26 (4 button key area).

Note: Any zone which already has a serial number learned in will not be accessible in ✻83 Enhanced Sequential mode!

Certain button-type transmitters have more than one button (e.g.; TC805HF). Note that each button must be assigned to a different zone. Similarly, the DOD800GY Transmitter has contact terminals *and* a reed switch for use with a magnet. If using both, each must also be assigned to a different zone.

This means that the procedures that follow must be repeated for each button-type zone below zone number 26 or contact on the transmitter. Four zone button-type devices are held in zones 26 and above. They will be started on boundaries of zones 26, 30, 34, and 38. These four zone button-type devices will have the option to have all information entered in this field. One entry will set the loop number, report code, zone type, and input device type for all 4 buttons, and a second entry will enter one serial number into four zones.

Note: Use this mode only after all other zone information has been programmed, including transmitter loop numbers except for button-type zones over zone number 26. The panel will stop at zones 26, 30, 34 and 38 and zone data can be entered as a default here.

Enter Serial Number Sequential mode by pressing ✻**83.** The prompts for ✻83 are as follows:

A 02	Zone Number ----------for entering the zone number to be programmed
1A	Enroll Mode ----------Selects method of serial number or viewing
1b	Enroll Serial Number ----------for entering transmitter serial numbers
F	Delete Serial Number ----------for deleting existing serial numbers

The following explains these prompts in detail. The left two columns identify the prompts and list the available entries. The right-most column provides a further explanation of the entries.

Notes: (1) Entry of a number other than one specified will give unpredictable results.
(2) In Enhanced Sequential Mode, 4 button type keys will always be enrolled simultaneously. They will be stopped at the 4 button boundaries of 26, 30, 34 and 38, provided the zone is free of a serial number. If the first zone of the key has a serial number enrolled, the remaining keys cannot be programmed in sequential mode. In addition, if the zone has not been set up (duplicate loop, missing zone type, etc.) only entries 0 (skip to the next zone) and 4 (copy the key template) will be allowed.
(3) You may find it convenient to adjust the volume setting before entering the Programming Mode. This will allow you to clearly hear feedback announcements or system beeps.

A 02	**Zone number** Enter the 2-digit zone number. [✻] = continue; system searches for zones not yet entered (for zones 2 through 25 a zone type must be entered), then advances to ENROLL SERIAL NUMBER prompt "1b" 00 = exit Sequential mode	Enter the 2-digit zone number of the first transmitter to have its serial number entered. The system will announce the Voice Descriptor for the selected zone number, if it is programmed. Press [✻] to continue. Starting with this zone number, the system will search for the first transmitter that has ***all*** of the following attributes pre-programmed in ✻56 ENHANCED ZONE PROGRAMMING: a) Make sure that the appropriate input type was selected in ✻56 (RF, UR, or BR programmed) b) Make sure that the appropriate loop number was selected in ✻56. c) No serial number programmed d) Zone type If the first zone number entered does ***not*** have one or more of the above attributes, the system will search its database for the first zone that does, and will display it at the enroll SERIAL NUMBER prompt (1b). Pressing 00 exits mode, upon which the prompt "83" blinks, indicating the mode is inactive. **Note:** Two exceptions to the requirement above exist for keys. Four zone button type devices (zone numbers 26, 30, 34, and 38) will be stopped only if there are no serial numbers enrolled in all 4 zones of the key, regardless of the attributes that have been entered. In addition, zone types are not required to be present. In this case, 1A, Option 4 must be selected prior to "Learn".

✻83 Enhanced Sequential Mode

1A zz 1A LC	**Enroll mode** 0 = advance to next zone to be enrolled 1 = enter now and proceed to SERIAL NUMBER prompt (1b). For 4 button keys (zones 26-29, 30-33, 34-37, & 38-41) the serial number will be enrolled to all four buttons. If enrolling a key, the panel will emit a long beep when entering a 1 to indicate that the present key set up is invalid. **Notes (**1) A valid template or key has 4 existing zones, each with a zone type, unique loop number. (2) If the display automatically advances to "1A" rather than "1b" the configuration of the key is not valid. At that point copy template, skip, or return are the only legal entries. 2 = copy the previous serial number entry from the buffer. **Notes** 1) Before you can copy a serial number you must first enter a serial number. If no serial is stored in the buffer and a copy is attempted the panel will emit a long beep indicating an invalid operation. (2) Not applicable for 4 button key zones 26-29, 30-33, 34-37, & 38-41. 3 = view existing serial number. **Note:** Only if "*L*" is displayed. If the "*L*" is not displayed the panel will emit a long beep. 4 = copy the 4 button key template that has been set in zone numbers 26-29 (all zone parameters except serial numbers). (Only valid on zones 30-33, 34-37, & 38-41 that do not have serial numbers enrolled.) **Notes (**1) Template acceptance is indicated by two beeps after copying. (2) A single long beep emitted when copying a indicates the template is not valid. 9 = delete existing serial. Go to the (1A) prompt. For 4-button key, zones 26-29, 30-33, 34-37, & 38-41 have serial numbers. Delete all four at one time. **Note:** Only if "*L*" is displayed. If the "*L*" is not displayed the panel will emit a long beep. [✻] = advance to next zone to be enrolled [#] = return to previous prompt (A)	**Note:** If "L" is displayed, the serial number for this transmitter has already been entered however, it may still be confirmed, viewed or deleted. If the transmitter's serial number has not been previously entered, you may enter the enroll serial number mode (1A) by entering "1", or copy the last serial number that was entered by entering "2". If the transmitter's serial number has been previously entered, you may, view the present serial number by entering "3". If view is selected each digit will be re-displayed, and the keypad will beep once for digits 1-6, and three times for the last digit. Once the serial number has been entered by either selecting a "1" or a "2", you will return to this prompt with the "*L*" on the display. The serial number/loop number combination that was entered can be confirmed by getting two transmissions (fault and restore) from the RF or UR device or one transmission from the BR device. If a transmission is received that matches the serial number and loop number entered, the system will announce the Voice Descriptor for the loop followed by three beeps, and a "C" will be displayed indicating that the received serial number and loop number transmission has been confirmed to match. No further transmissions will be received. When confirming a 4 button key, only the serial number is confirmed, since it assumed that all loops are used. Pressing any key will allow a confirmation. **Long beep indicates illegal entries, or duplicate serial number/loop entry** When the last zone has been entered, the display will remain on that zone. To exit this mode and return to data field program mode, press 00 at the ZONE NUMBER prompt. When all zones have been programmed, test each zone using the system's Test mode. Do not use the Transmitter ID Sniffer mode for this, since it will only check for transmission of one zone on a particular transmitter, and not the zones assigned to each additional loop. For Zones 26-29, 30-33, 34-37, and 38-41 any loop can be used for RF enrollment. If enrolling via RF, it will be confirmed without additional transmissions.
1b zz 1b	**Serial number** Enter transmitter's 7- digit serial number via RF learning or manually. [#] = return to (1A) prompt and reject whatever serial number entries have been made. [✻] = return to (1A) prompt (if a valid serial number has been enrolled, "*L*" is displayed and the serial number will be copied into EEROM and the last serial entered buffer. **Note:** For zones 26, 30, 34 and 38 only BR type devices can be used.	This prompt can be used to enroll the transmitter serial number via RF transmission or manually. If using the RF Learning Mode there is no need to manually enter a serial number. Proceed directly to RF Learning. Upon entering the Serial Number mode, the Zone Descriptors will be announced. **Note:** BR type devices can be enrolled only by transmission from BR devices. Likewise, UR and RF devices can only be enrolled by transmission from a UR or RF device **RF Learning** – Two (2) transmissions (2 key depressions) at least five seconds apart, will be required for BR type or four (4) transmissions (fault, restore and fault, restore) for UR or RF type. If the learned serial number has a different loop number than that entered in ✻56 the system will announce the Voice Descriptor, if it is programmed, followed by two beeps and will return to Prompt (1A) and "L" will be displayed.

✻83 Enhanced Sequential Mode

		For UR or RF type devices, four (4) transmissions are required (fault, restore and fault, restore). A single beep will sound after the second transmission confirming that the loop and serial number have been captured. Following the fourth transmission the system will confirm that the loop number and serial number have been learned and announce the Voice Descriptor for the zone, if it is programmed, followed by two beeps. Press [✻] to continue. If you are enrolling a IRX800GY, IR800PIGY or IRPI800M Motion Sensor, or the DOD800GY Door/Window Sensor transmit two fault, restore (open, close) sequences by faulting the sensor's tamper switch. Refer to the Installation Guide provided with the wireless device for additional information. If you are enrolling a DTO800HF Heat/Smoke Detector transmit two fault, restore (open, close) sequences as follows: 1. Insert the detector head into the base by turning it clockwise. This will activate the tamper switch. 2. Wait 10 seconds. 3. Unscrew the detector head by turning it counterclockwise. 4. Repeat steps 1 – 3 to confirm the serial number. **With the exception of the panic function, the TC805HF does not transmit until the buttons have been released. The panic functions transmit as soon as the two-button combination is depressed. Each button of the keyfob must be enrolled individually.** **The "fifth" (panic) button transmits with a different serial number. To enroll the phantom "fifth" button, press and hold both "SOS" buttons.** If you are enrolling the TC805HF Remote Keyfob, transmit two fault, restore (open, close) sequences by pressing and and releasing the selected button. Wait approximately four seconds before pressing the button again. If the loop number captured by RF transmission and that entered in ✻56 mode match, the system will announce the Voice Descriptor, if it is programmed, followed by three beeps and return to Prompt (1A) and "LC" will be displayed. No additional transmissions are needed for confirmation. **Manual Entry –** Enter the 7-digit serial number printed on the transmitter. If you enter an incorrect digit, press the [#] key to backup to prompt (1A) and start over. When all 7 digits are entered, press the [✻] key. If less than 7 digits are entered, the keypad will emit a single long beep and return to the (1A) prompt without displaying the "L". If more than 7 digits have been entered, the first 6 digits will be saved along with the last digit that was entered (entering 123456789 yields the serial number 1234569). **Note:** If 52 seconds pass and no entry has been made, the system returns to prompt (1A).
F	**Delete serial number** 0 = discard the delete request 1 = confirm requested delete **Note:** Entering a "9" at prompt (1A) will cause the panel to return to prompt (1A) regardless of the confirmation answer.	This function deletes only the serial number. Entering a "9" at prompt (1A). Confirmation of the delete request will cause deletion of the serial number pertaining to the zone being programmed.

Note: In Enhanced Sequential Learn Mode, 4 button type keys will always be learned simultaneously. They will be stopped at the 4 button boundaries of 26, 30, 34 and 38, provided the zone is free of a serial number. If the first zone of the key has a serial number learned, the remaining keys cannot be programmed in sequential learn mode. In addition, if the zone has not been set up (duplicate loop, missing zone type, etc.) only entries 0 (skip to the next zone) and 4 (copy the key template) will be allowed.

✻84 Assign Zone Voice Descriptors

Use this mode to assign voice descriptors for each zone. These are the descriptors that are announced when the system announces any event involving a zone number. Each descriptor can consist of up to 3 words. Press ✻84 while in Programming mode.
The prompts for ✻84 are as follows:

84	Voice Descriptors ---------- Main Menu prompt
A 02	Zone Number---------- for entering the zone number to be programmed
b	Descriptor 1---------- for assigning the first word of this zone's descriptor
C	Descriptor 2---------- for assigning the second word of this zone's descriptor
d	Descriptor 3---------- for assigning the third word of this zone's descriptor

The following explains these prompts in detail. The left two columns identify the prompts and list the available entries. The right-most column provides a further explanation of the entries.

Note: Entering a number other than the one specified will give unpredictable results.

84	**Assign zone voice descriptors** 0 = exit mode 1 = enter mode	Pressing 1 advances to the next prompt below. Pressing 0 exits mode, upon which this prompt blinks, indicating the mode is inactive.
A zz	**Zone number** [✻] = continue to next prompt (any existing descriptors will be announced, then descriptor 1 will be repeated) 00 = exit voice descriptor mode	Enter the 2-digit zone number for which this descriptor is being assigned, then press [✻]. The Voice Descriptor for the selected zone will be announced, if it is programmed.
B vv	**Descriptor 1** Enter [#] + 2-digit vocabulary index number of first descriptor word for this zone. 6 = accept word and advance to descriptor 2 (descriptor 2 will be announced) 8 = accept word and advance to prompt (A) for next zone. Press any other key to repeat the selected word.	Enter the first word of the descriptor for the selected zone. Use the [6] or [8] key to advance as described. To change the entered index number before pressing [6] or [8], simply press [#] + desired 2-digit vocabulary index number. If descriptor 1 is not desired, enter [#] + 99 (blank), then press [8] to return to zone number prompt.
C vv	**Descriptor 2** Enter [#] + 2-digit vocabulary index number of second descriptor word for this zone. 6 = accept word and advance to descriptor 3 (descriptor 3 will be announced) 8 = accept word and advance to prompt (A) for next zone. Press any other key to repeat the selected word.	Enter the second word of the descriptor for the selected zone. Use the [6] or [8] key to advance as described. To change the entered index number before pressing [6] or [8], simply press [#] + desired 2-digit vocabulary index number. If descriptor 2 is not desired, enter [#] + 99 (blank), then press [8] to return to zone number prompt.
D vv	**Descriptor 3** Enter [#] + 2-digit vocabulary index number of third descriptor word for this zone. 6 or 8 = accept word and advance to prompt (A) for next zone. Zone descriptor will be announced. Press any other key to repeat the selected word.	Enter the last word of the descriptor for the selected zone. Use the [6] or [8] key to advance as described. To change the entered index number before pressing [6] or [8], simply press [#] + desired 2-digit vocabulary index number. If descriptor 3 is not desired, enter [#] + 99 (blank), then press [8] to return to zone number prompt.

✻84 Assign Zone Voice Descriptor

VOICE VOCABULARY INDEX

00 ½ second pause

A
82 ALARM
32 ATTIC

B
01 BABY
33 BACK
34 BASEMENT
35 BATHROOM
36 BEDROOM

C
83 CHECK

D
37 DELAY DOOR
38 DEN
02 DETECTOR
03 DINING
39 DINING ROOM
04 DOOR
40 DOWNSTAIRS
05 DRIVEWAY

E
06 EAST
41 EIGHT
42 EMERGENCY

F
43 FAMILY ROOM
87 FIRE
44 FIRE DETECTION
07 FIRST FLOOR
45 FIVE
08 FLOOR
46 FOUR
47 FRONT

G
48 GARAGE
49 GUEST ROOM
09 GUN

H
50 HALL

I
10 INSIDE

K
51 KITCHEN

L
11 LAUNDRY
52 LAUNDRY ROOM
12 LIBRARY
13 LIVING
53 LIVING ROOM

M
14 MAIN
15 MASTER
54 MASTER BEDROOM
55 MEDICAL
84 MESSAGE
56 MOTION DETECTOR

N
57 NINE
16 NORTH
58 NURSERY

O
59 OFFICE
60 ONE
17 OUTSIDE

P
61 PATIO
62 POLICE
18 POOL

R
63 REAR
19 ROOM

S
64 SECOND FLOOR
65 SEVEN
20 SHED
21 SHOP
66 SIDE
67 SILENT POLICE
68 SIX
69 SLIDING
22 SMOKE
23 SOUTH
24 STORAGE
85 SYSTEM

T
25 THIRD FLOOR
75 THREE
76 TRANSMITTER
77 TWO

U
78 UPSTAIRS
26 UTILITY
79 UTILITY ROOM

W
27 WEST
80 WINDOW

Y
28 YARD

Z
81 ZERO
86 ZONES

29 1ST
30 2ND
31 3RD

70 Custom Word #1
71 Custom Word #2
72 Custom Word #3
73 Custom Word #4
74 Custom Word #5

99 Blank (for erasing a previously programmed word)

SYSTEM WORDS
AC LOSS
ARMED
AWAY
BYPASSED
CHIME
DISARMED
DISARM SYSTEM NOW
EXIT NOW
FAULT
INSTANT
LOW BATTERY
NOT
READY TO ARM
STAY

Note: If button type device is used to Arm Away, Arm Stay, and disarm the system it is recommended to assign “Check” and “Zones” voice descriptors to each of the three zones. This will allow the system to announce “Check Zones” “Low Battery” if the button device has a low battery.

✻85 Record Custom Voice Descriptors

Use this mode to record up to 5 custom voice descriptors. Press ✻85 while in Programming mode.

Note: Entering a number other than one specified will give unpredictable results.

85	**Assign custom voice descriptors** 0 = exit mode 1 = enter mode	Entering "1" advances to the next prompt below. Entering "0" exits mode, upon which this prompt blinks, indicating the mode is inactive.
A 7d	**Custom descriptor number** Enter 7 + d + [✻] Where d = 0-4, each representing custom word 70, 71, 72, 73, or 74, respectively. Any existing word will be announced. Press [#] to start recorder. Begin speaking immediately after the third beep. Speak the desired word clearly near the microphone. Recording stops after 1.5 seconds. 6 = accept word and ready to record next descriptor prompt (A….7d) [#] = re-record descriptor 00 = exit Record mode after pressing 6 to accept word Press any key to repeat the recorded word.	Record up to 5 custom words.

Enrolling the CSK800HF Monodirectional Keypad

The following procedures should be used in conjunction with *56 Enhanced Zone Programming Mode and/or *83 Enhanced Sequential Mode procedures.

Prior to enrolling the keypad in the LYNXR-IE Control Panel you must set up Security Codes and Prox Tags (if supported). No interaction with the panel is required. Refer to the Installation Instructions for the CSK800HF for additional information.

1 Install the CSK800HF in accordance with the Installation Instructions provided with the Keypad.

2. Enroll tamper and supervision functions as follows:
   a. Program as Zone Type 07 (24 Hr. Audible)
   b. Program as Input Type 04 (Unsupervised RF Transmitter) (UR-type)
   c. When prompted for the Serial Number, transmit two open and close (or close and open) sequences by faulting the keypad's tamper switch.
3. Set up "Global features" (if desired). If Anonymous (no security code) System Arming has been enabled in the CSK's setup, you must enroll this feature in the LYNXR-IE control as follows:
   a. Program a zone as Zone Type 20 (Arm-Stay) or 21 (Arm-Away)
   b. When prompted for Input Type, enter 05 (RF button-type transmitter-BR type)
   c. When prompted for a serial number, transmit two open and close sequences by pressing and releasing the Total Arming button. Repeat to confirm.
4. Set up the Panic feature as follows:
   a. Program a zone for the applicable 24-hour Zone Type (For detailed definitions of each zone type refer to the LYNXR-IE Installation and Setup Guide.)
   b. When prompted for Input Type, enter 05 (RF button-type transmitter-BR type)
   c. When prompted for a serial number, transmit two open and close sequences by pressing and releasing the PANIC button. Repeat to confirm.
5. Set up the keypad Anti-Fraud Blocking feature as follows:
   a. Program a zone for the applicable Zone Type (For detailed definitions of each zone type.)
   b. When prompted for Input Type, enter 05 (RF button-type transmitter-BR type).
   c. When prompted for a serial number, press a random key 21 times to activate the keypad Anti-Fraud Blocking. Press the "*" key to confirm, OR
      Manually copy the serial number entered during Anonymous System Arming or Panic Enrollment above, and manually enter loop 2.

You must wait 5 minutes for the keypad tamper state to be cleared out of the CSK.

6. Set up Relays (if desired). The CSK can control up to eight relays. These can be used to trigger any panel-supported behavior (e.g. X10 events).
   a. Program each of the "relay on" and "relay off" sequences as separate zones, using Zone Type 23 and Input Type 5 "BR" (RF button-type transmitter).
   b. When prompted for a serial number, activate the desired relay command on the CSK (refer to the CSK800HF Installation Instructions).

When enrolling an "On" function, Loop 1 will be indicated. When enrolling an "Off" function, Loop 2 will be indicated.

   c. In Output Programming, program one output function to "close" a relay on a fault of the "activated By" zone.
   d. Program another output function to "turn off" the same relay on a fault of the "activated By" zone.
7. Set up Users. Enroll any of the four principal user-specific functions (arm total, disarm, arm partial) corresponding to each user that was enabled while programming the CSK. Each "user" transmits as a different serial number. The CSK supports the full range of ten users, four functions per user. Each function is enrolled as a zone with the appropriate zone type (e.g. Arm Away), and Input Type 05.

Enrolling the CSK800HF Monodirectional Keypad

The following example is provided:

Example: Setting up the CSK with two users. User 0 is assigned code 1234 and will be allowed to arm-away, arm-stay or disarm the system. User 1 is assigned code 5678 and will be allowed to arm-away or disarm only. It should be noted that these User numbers do not correspond with the LYNR-IE User Numbers.

Enroll user 0 “total arming” (arm away) function:

a. Program a zone as Zone Type 21 (Arm AWAY)
b. When prompted, enter Input Type 05 (RF button-type transmitter-BR type).
c. When prompted for a serial number, press (ARM-ALL) followed by 1234 on the CSK. Repeat to confirm.

Enroll user 0 “partial arming” (arm stay) function:

a. Program a zone as Zone Type 20 (Arm STAY)
b. When prompted, enter Input Type 05 (RF button-type transmitter-BR type).
c. When prompted for a serial number, press (ARM- PART) followed by 1234 on the CSK. Repeat to confirm.

Enroll user 0 “disarm” function:

a. Program a zone as Zone Type 22 (Disarm)
b. When prompted, enter Input Type 05 (RF button-type transmitter-BR type).
c. When prompted for a serial number, enter 1234 on the CSK. Repeat to confirm.

Enroll user 1 “total arming” (arm away) function:

a. Program a zone as Zone Type 21 (Arm AWAY)
b. When prompted, enter Input Type 05 (RF button-type transmitter-BR type).
c. When prompted for a serial number, press (ARM-ALL) followed by 5678 on the CSK. Repeat to confirm.

Enroll user 1 “disarm” function:

a. Program a zone as Zone Type 22 (Disarm)
b. When prompted, enter Input Type 05 (RF button-type transmitter-BR type).
c. When prompted for a serial number, enter 5678 on the CSK. Repeat to confirm.

Prox (MFID) tags are associated with a particular user during the CSK setup and no additional enrollment is required. When a user brings the prox tag up to the reader it is recognized by the panel as if the user had entered his/her security code at the keypad.

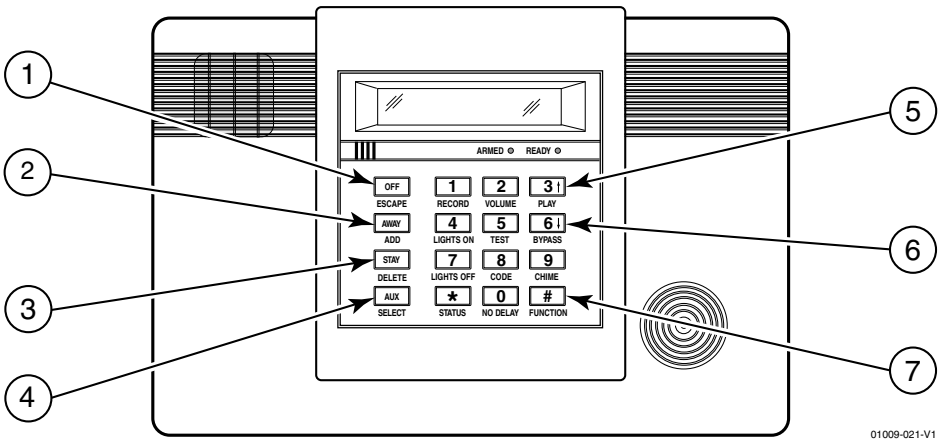
Voice Prompt Programming

The LYNXR-IE features a quick programming mode that allows you to program the system by responding to a series of voice prompts. The Voice Prompt Programming Guide provides you with the information required to use this feature.

Voice Prompt Programming Keypad Functions:

The keys shown below are used to navigate through the Voice Prompt Programming Feature.

1. **ESCAPE/**[OFF] key: Used at any time to exit the current menu and return to the previous prompt.
2. **ADD/**[AWAY] key: Used to add sensors, or keys or save data when entering phone or account numbers.
3. **DELETE/**[STAY] key: Used to delete a sensor when in the delete Sensors Menu.
4. **SELECT/**[AUX] key: Used to confirm a selection.
5. [3 ↑] key: Used to scroll forward through menu choices.
6. [6 ↓] key: Used to scroll backward through menu choices.



7. **FUNCTION/**[#] **key:** Used to repeat a voice prompt. (This function cannot be used while entering phone or account numbers.)

Notes: (1) Keying in any new command will terminate the active voice prompt.

(2) If an irrelevant command is entered LYNXR-IE will generate a long rejection beep and repeat the previous voice prompt.

(3) Phone numbers and account numbers can be left blank by pressing the "ADD/[AWAY]" key without entering any data.

(4) LYNXR-IE automatically saves phone and account number data once all available digits are entered.

ENTERING VOICE PROMPT PROGRAMMING

1. Power-up the control and enter the Installer Code (4 1 1 2) + 8 8 8.
2. Once you have entered into the Voice Prompt Programming Mode the system will announce, "Programming, use ARROWS to scroll choices, press SELECT to accept, press ESCAPE to quit."
3. Press the [6 ↓] or [3 ↑] keys to scroll through the voice menu and follow the instructions provided.
4. The system will announce the following options:
   "Add Sensors"
   "Delete Sensors"
   "First Central Station Phone Number"
   "First Central Station account Number"
   "Second Central Station Phone Number"
   "Second Central Station account Number"
   "Templates"
   "Expert Programming Mode"
5. Follow the directions provided by each voice prompt to make your selections.

The FUNCTION/[#] key can be used to repeat a voice prompt, as required.

6. When you have completed each programming procedure the system will return to the Main Programming Menu.

EXITING VOICE PROMPT PROGRAMMING

1. Once you have returned to the Main Programming Menu, the system will announce, "Programming use ARROWS to scroll choices, press SELECT to accept, press ESCAPE to quit".
2. Press **ESCAPE/**[OFF] to exit Voice Prompt programming mode once you have returned to the Main Programming Menu.

Voice Prompt Programming

Enter Voice Prompt Programming Mode: (Installer Code + 8 8 8). Follow the voice prompts to advance to the selected item in the Main Programming Menu.

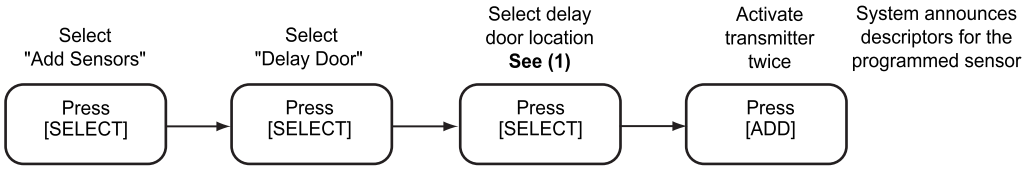
Add Sensors First Central Station Phone Number Second Central Station Phone Number Templates	Delete Sensors First Central Station account Number Second Central Station account Number Expert Programming Mode

Program each option as shown below. Use the [6 ↓] and [3 ↑] keys to scroll through the voice menu and follow the voice prompts to program the LYNXR-IE.

The CSK800HF Monodirectional Keypad cannot be enrolled using the Voice Prompt Programming mode.

The LYNXR-IE will enroll a sensor once the transmitter has been activated two times. The system will confirm the enrollment following each subsequent activation of the same transmitter.

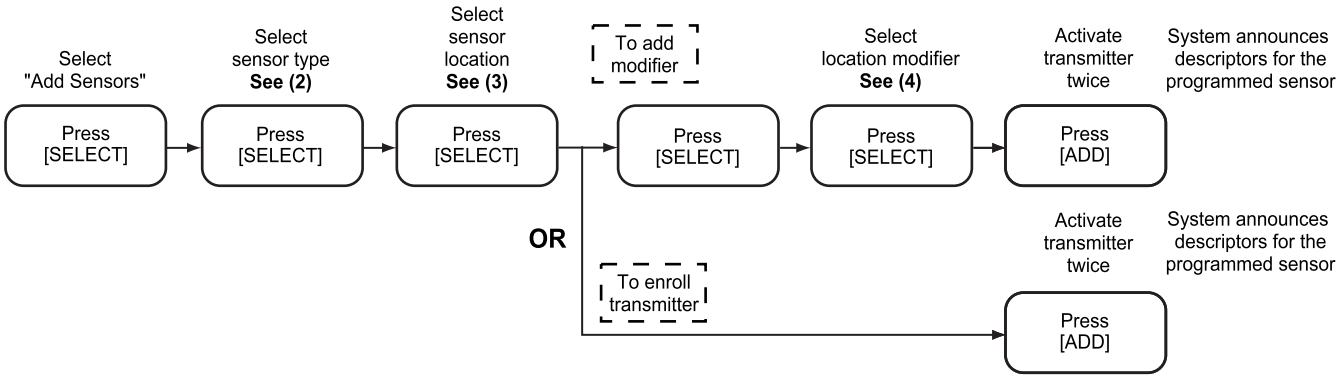
To Add a Door Sensor



(1) Delay Door Location

Front	Basement
Back	Sliding
Side	Hall
Garage	Kitchen
	Patio

To add a Window, Motion Detector, or Fire Detection Sensor



(2) Sensor Type

Window
Motion Detector
Fire Detection

(3) Sensor Location

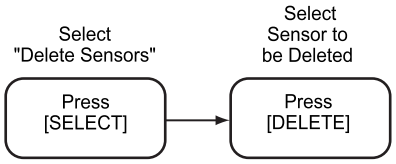
Living room	Den
Dining room	Family Room
Bedroom	Guest Room
Bathroom	Laundry Room
Nursery	Utility Room
Kitchen	Garage
Hall	Attic
Basement	Office
Master Bedroom	Upstairs

(4) Location Modifiers

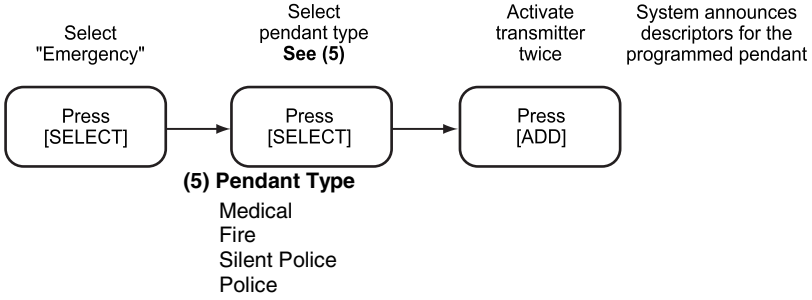
Upstairs
Downstairs
First
Second
Third
Second Floor
Front
Rear
Side

Voice Prompt Programming

To Delete Sensors

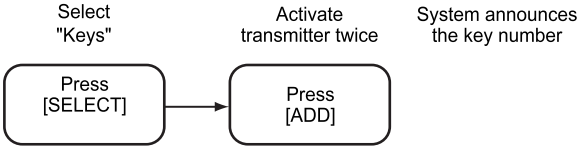


To Add an Emergency Pendant



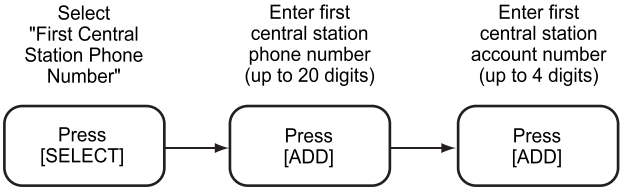
When adding wireless keys, wait 5 seconds between transmissions.

To Add a Wireless Key



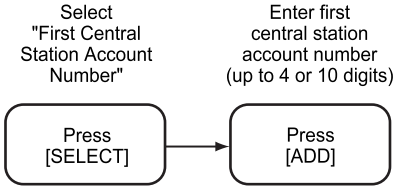
LYNXR-IE automatically saves phone and account number data once all available digits are entered.

To Add First Central Station Phone Number



All four digits of the Central Station account number must be entered. If ten-digit format is selected, all ten digits must be entered.

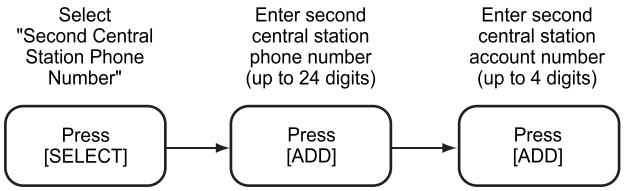
To Add First Central Station Account Number



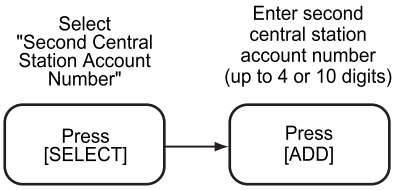
Voice Prompt Programming

All four digits of the Central Station account number must be entered. If ten-digit format is selected, all ten digits must be entered.

To Add Second Central Station Phone Number

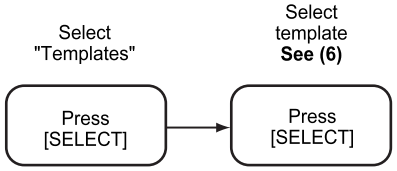

Select "Second Central Station Phone Number"
Enter second central station phone number (up to 24 digits)
Enter second central station account number (up to 4 digits)
Press [SELECT]
Press [ADD]
Press [ADD]

To Add Second Central Station Account Number


Select "Second Central Station Account Number"
Enter second central station account number (up to 4 or 10 digits)
Press [SELECT]
Press [ADD]

Refer to the LYNXR-IE Programming Default Tables to view the complete set of Template (default table) selections.

To Program a Template (Default Table)



(6) Template selections

Template 1

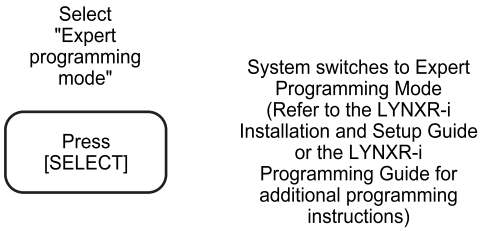
Template 2

Template 3

Template 4

To Enter Expert Programming Mode

Once you have entered the Expert Programming Mode, the [ESCAPE] key can be used to return to the Voice Prompt Programming mode.


Select "Expert programming mode"
Press [SELECT]
System switches to Expert Programming Mode (Refer to the LYNXR-i Installation and Setup Guide or the LYNXR-i Programming Guide for additional programming instructions)

Remote Programming/Control (Downloading)

General Information

The control panel can be remotely programmed from an IBM-compatible Personal Computer (PC), a HAYES Modem, and ADEMCO's Compass Downloader for Windows (as specified below).

Multiple security levels protect remote programming against compromise by attempts to defeat the system.

1. **Security Code Handshake:** An 8-digit download ID code must be matched between the Control and downloader.
2. **Site-Initiated Remote Programming:** The installer or subscriber initiates the call from the subscriber premises (by entering Installer Code + # + 1) while disarmed. All parameters can then be downloaded via the phone lines using a personal computer.
3. **Station-Initiated Remote Programming:** The operator calls the site from your office to initiate the download call. The Control hangs up and then calls back the PC via the preprogrammed telephone number. The unit can then be uploaded, downloaded, or controlled from your office.
4. **Telco Handoff:** The installer or subscriber performs a download session on the call initiated from the site or from local laptop computer (by entering Installer or Master Code + # + 1 at the control panel).
5. **Data Encryption:** Data passed between the PC and the Control is encrypted for security so that it is very difficult for a foreign device tapped into the phone line to take over communication and substitute system-compromising information.

Equipment required to download to a system at the premises

- An IBM PC compatible computer and appropriate interconnecting cables.
- *Either* a HAYES brand SMARTMODEM 1200 (Level 1.2 or higher external or Level 1.1 or higher [with 4 position DIP switch] internal style), a HAYES brand Optima 336 external, a HAYES brand Optima 24 Plus FAX96, or an ADEMCO CIA Modem.
- Compass Downloader for Windows (at revision level supporting LYNXR-I).

Initial Download: Enter **Installer Code + # + 5**. This sets field ∗95 to 4 rings, and system to "no call-back" option. The download computer can then call the subscriber, make connection, and download all programming data.

Flexible Callback: If enabled in field ∗93, the download operator can temporarily change the last 1, 2, or 3 digits (depending on selection) of the call back number. This allows the control to call back a computer other than the one programmed, which may be helpful at times of high computer traffic. See field ∗93 for a full description.

Remote Programming Information

If using Remote Programming, the LYNXR-IE must be connected to the telephone line or to the Internet, as applicable.

The downloading system can perform many functions when in communication with the Control. Besides uploading and downloading, the status of the system can be observed and various commands can be initiated, as follows:

- Arm the system in the away mode; disarm the system.
- Bypass a zone.
- Force the system to accept a new program download.
- Shut down communication functions (for nonpayment of monitoring fees in an owned system).
- Shut down all security system functions (for nonpayment for a leased system).
- Inhibit local keypad programming (prevents account takeover).

Remote Programming/Control (Downloading)

- Command the system to upload a copy of its resident program to the office.
- Set the time
- View/Modify
- X10/ Scheduling
- Read: arming status, AC power status, lists of faulted zones, bypassed zones, zones currently in alarm, zones currently in trouble, and RF sensors with low battery conditions; read control's time.

Notes: (1) After the control and the PC have established valid communication, the keypad will become inactive and will display "**CC.**"
(2) The keypad will become active after the download communication is terminated.
(3) The detailed operation of the download functions is covered in the installation instructions for the Compass Downloader for Windows.

Remote Programming Advisory Notes

- Keypad entries are ignored during the time interval stated above.
- A copy of the program downloaded may be printed using the IBM PC-compatible computer's internal report generator, when an optional printer is connected (consult your PC manual for proper printer and connections).
- Program upload or download time is approximately one minute, fifteen seconds for a complete program.

System Operation

Security Codes

Installer Code

The installer programs the 4-digit Installer Code initially as part of the programming procedure. The factory default Installer Code is **4-1-1-2**, but may be changed in field ∗20.
The Installer Code is the only code that can enter Programming mode and also, in normal operation mode, is used to enter the Master Code, which allows access to the normal functions of the system.

Master Code

In normal operation mode, the Installer Code is used to enter the 4-digit Master Security Code.
To enter/change the Master code by installer, using the keypad enter:

Installer Code + [CODE key] + [02] + desired 4-digit Master Code

To change the Master code by master, using the keypad enter:

Current Master Code + [CODE key] + [02] + new Master Code + new Master Code again

Secondary User Codes

In normal operation mode, the Master Security Code can be used to assign up to 6 secondary 4-digit security codes, including a Babysitter Code and a Duress Code. The Master Code can also be used to remove secondary codes from the system (individually).

To assign (or change) a secondary security code, using the keypad enter:

Master Code + [CODE key] + User # (03–08) + desired Secondary Code

The system will emit a single beep when each secondary code has been successfully entered.

To delete a secondary security code, using the keypad enter:

Master Code + [CODE key] + User # (03–08)

Security Code Notes

- The Master and Secondary security codes permit access to the system for arming, disarming, etc.
- The Installer Code can disarm the system only if it was used to arm it.
- The Babysitter Code (User Code No. 7) can disarm the system only if it was used to arm it.
- Duress code (User Code No. 8) sends a special code to the monitoring station when used to perform any system operation. Instruct users to be careful not to use this code for normal usage.
- If a secondary code is inadvertently repeated for different users, the lower user number will take priority.
- Opening/closing reports are sent for the Installer Code as No. 01, with the appropriate subscriber number. Master Code and set of secondary user codes are sent as Nos. 02 and 03–08, respectively, in Contact ID® format (with the appropriate user number).

Panic Keys

There are three panic key pairs that, if programmed, can be used to manually initiate alarms and send a report to the central station.
Each can be individually programmed for 24-hour silent, audible, personal or fire emergency responses. The panic function is activated when both keys of the appropriate key pair are pressed at the same time.
The panic functions are identified by the system as follows:

Keys	Displayed as Zone
[1] & [∗]	95
[∗] & [#]	99
[3] & [#]	96

Important: For the silent panic functions to be of practical value, the system must be connected to a central station.

System Operation

Display

The LCD Display is only active for a period of 35 seconds after a valid User Code has been entered or the Status Key [✱] has been pressed. The display is also active during the Entry or Exit Delay period and when the system is in an interactive mode (i.e.; Time/Date, Scheduler, Speaker Phone, Installer Programming). The display will also be active if there is an active alarm in the system. When the system is disarmed the READY LED will be lit.

Keypad Functions

The keypad allows the user to arm and disarm the system, and perform other system functions, such as bypassing zones. Zone and system conditions (alarm, trouble, bypass) are displayed in the display window. When an alarm occurs, keypad sounding and external sounding will occur, and the zone(s) in alarm will be displayed on the keypad. Pressing any key will silence the keypad sounder for 10 seconds (only once). Disarming the system will silence both keypad and external sounders. When the system is disarmed, any zones that were in an alarm condition during the armed period will be displayed (memory of alarm). To clear this display, simply repeat the disarm sequence (enter the security code and press the OFF key). The keypad also features chime annunciation, and 3 panic key pairs for silent, audible, fire or personal emergency alarms. These keys can notify the central station of an alarm condition, if that service is connected. A summary of system functions is provided below for more detailed information refer to the User's Manual.

The system will not arm when the conditions listed below exist however, re-entering the command within 35 seconds will override the condition and the system will arm.

- AC Loss
- System Low Battery
- RF Jam
- Communications Failure
- Sensor Low Battery (non-fire zones only)
- Entry/Exit Zone Fault

Security Functions (Empty boxes represent the user's security code)

Checking system status: ..... [STATUS] (high level messages); press [STATUS] again for secondary messages

To arm in STAY mode: ..... ☐☐☐☐ + [STAY] (or installer code + [3])

To restart exit delay: ..... [STAY] (applies only if system is armed in Stay mode)

To arm in AWAY mode:..... ☐☐☐☐ + [AWAY] (or installer code + [2])

To arm with NO DELAY:..... ☐☐☐☐ + [AWAY] or [STAY] + [NO DELAY]

To disarm the system and silence alarms: ☐☐☐☐ + [OFF]

To bypass a zone(s): ..... ☐☐☐☐ + [BYPASS] + 2-digit zone number(s)

To turn Chime mode on or off: ..... [FUNCTION] + [CHIME]

Message Center

To record a message: ..... [FUNCTION] + [RECORD]

To stop recording before end of 90 seconds: [OFF]

To play back a message:..... [FUNCTION] + [PLAY]

To skip a message: ..... [✳]

To delete all messages:..... [FUNCTION] + [DELETE] (during message replay)

Volume Control

To adjust message playback/system announcement volume: [FUNCTION] + [VOLUME] + [3] or [6]

To mute system announcements: ..... [FUNCTION] +[VOLUME] + [OFF]

To restore/unmute announcement & volume: [FUNCTION] + [VOLUME] + [3] or [6]

System Operation

Other Functions

To set the time and date: ..... ☐☐☐☐ + [FUNCTION] + [63]

To set the scheduling: ..... ☐☐☐☐ + [FUNCTION] + [64]

To activate or deactivate X10 devices 1-6: [FUNCTION] + [LIGHTS ON] or [LIGHTS OFF] + device number

To activate or deactivate X10 devices 7 & 8: ☐☐☐☐ + [FUNCTION] + [LIGHTS ON] or [LIGHTS OFF] + dev. No.

To add a user code: ..... ☐☐☐☐ *+ [CODE] + user number + user's code (*master code)

To delete a user code (except Master Code): ☐☐☐☐ *+ [CODE] + user number (* master code)

To turn Test mode on: ..... ☐☐☐☐ + [TEST]

To turn Test mode off: ..... ☐☐☐☐ + [OFF]

To use the defined AUX function: Press and hold [AUX] key 2 secs (4 beeps) + ☐☐☐☐

To define AUX function:☐☐☐☐ + [FUNCTION] + [AUX] + action separated by + [AUX] terminated by + [AUX] + [AUX]

To send message to "Follow Me" phone: Press and hold [AUX] key 2 seconds (4 beeps)

To program Follow Me Announcement telephone number: ☐☐☐☐ + [FUNCTION] + [65]

Speaker Phone Operation

To place a call or answer a call using the speaker phone: [#] + [AUX]

To flash (switch between two calls using call waiting): [AUX]

To hang up and exit speaker phone mode: [OFF]

To enable/disable (toggle) ringer: [#] + [VOLUME] + [AUX]

To return the keypad to telephone mode after disarming the system: [#] + [AUX]

NOTE
The ARMED and READY LEDs blink alternately when the Speaker Phone is Active.

Remote Phone Control Feature

The remote phone control feature, which must be enabled in field ∗91, allows the user to access the security system from any off-site touch-tone telephone. The control will pick up the incoming call, based on the ring count specified in field ∗95, and will announce "SYSTEM ENTER CODE" every three (3) seconds for the next eight (8) seconds. During this period the panel will wait for a valid User Code to be entered. If a valid User Code is not entered or the eight (8) second period expires a modem tone will be generated for remote programming (Compass Downloading). If a valid User Code has been entered, the control will announce the current system status and/or beeping sounds.

Keypad Functions

Remote Phone Control Feature

To remotely disarm system: ☐☐☐☐ + [1]

To remotely arm in AWAY mode: ☐☐☐☐ + [2]

To remotely arm in STAY mode: ☐☐☐☐ + [3]

To remotely arm in AWAY or STAY with no delay: ☐☐☐☐ + [2] or [3] + [0]

To remotely activate X10 devices 1-6: [#] + [4] + device no.

To remotely activate X10 devices 7 & 8: ☐☐☐☐ + [#] + [4] + device no.

To remotely deactivate X10 devices 1-6: [#] + [7] + device no.

To remotely deactivate X10 devices 7 & 8: ☐☐☐☐ + [#] + [7] + device no.

To remotely Bypass zones: ☐☐☐☐ + [6] + zone no.

To remotely activate Forced Bypass: ☐☐☐☐ + [6] + [#]

To remotely check system status: [∗]

To end remote phone control session: Hang Up or enter ☐☐☐☐ + [9]

Audio Alarm Verification (Two-Way Voice Feature)

This feature allows the central station operator to listen, talk to or conduct a two-way conversation with an individual(s) at the premises. It also assists the operator in gathering information about the nature and location of the alarm that may be helpful in responding to police and fire departments. All LYNXR-IE control panels are capable of supporting the Two-Way Voice feature. The LYNXR-IE does not make system announcements when the Two-Way voice feature is active.

Activation

The LYNXR-IE sends the "alarm message" followed by a "Listen-in-to-Follow message" (Contact ID® code 606) to the Central Station. The Listen-in-to-Follow message causes the Central Station's digital receiver to temporarily hold the phone line for approximately 1-minute. When the LYNXR-IE receives the "kissoff" from the central station, indicating that the alarm message has been received, the Two-Way Voice (AVM) feature is activated in the (default) "Listen Mode" and sirens and keypad sounds are discontinued. The LYNXR-IE transmits a beep acknowledgment to the Central Station, once per second. The beep alternates between two tones and indicates that the LYNXR-IE is waiting for a session command from the Central Station operator. Once a command is issued the beep acknowledgement is discontinued, however, if a command is not issued within two minutes the system will "time out" and the call will be terminated.

Operator Commands

The Central Station operator begins the session, which last 5 minutes, by entering one of the valid AVM commands shown in the table below. The session may be extended 5 minutes, without changing the operating mode, by pressing the [7] key on the touch-tone phone. Selecting another operating mode also resets the session an additional 5 minutes. During the last minute of the 5 minute, session, the LYNXR-IE generates two beeps every 30 seconds to alert the Central Station operator that the session is about to time out. The Central Station operator may then extend the session by pressing the [7] key on the touch-tone phone. If the session is not extended the phone line is disconnected, and the session is ended. Sessions may be ended at any time by pressing the [9] key on the touch-tone phone. The AVM modes are described as follows:

Note: When entering AVM commands make sure the Central Station receiver has been disconnected from the phone line, otherwise AVM commands may not go through.

Key	Function
1	Talk Mode: Pressing the [1] key on the touch tone phone, enables one-way voice communication from the central station to the violated premises, and allows the operator to talk communicate through the LYNXR-IE speaker. In this mode the ARMED (red) and READY (green) LEDs blink alternately.
2	VOX (Voice) Mode: Pressing the [2] key on the touch-tone phone, enables two-way voice communications between the central station and the violated premises. In this mode the ARMED (red) and READY (green) LEDs blink alternately.
3	Listen Mode: Pressing the [3] key on the touch-tone phone, enables one-way audio from the violated premises to the central station. The Listen Mode is the start up default mode of the voice feature and allows the operator to listen through the LYNXR-IE microphone. This mode does not affect the existing LED pattern.
7	Extends the session 5 minutes without changing its operating mode.
9	Ends the session and disconnects the phone line.

System Operation

"Follow Me" Reminder Feature

This feature allows the user to schedule a time driven message. When activated the system will dial a phone number, that the installer programs in Field ∗46, and deliver a voice message (custom words 72, 73, and 74). The LYNXR-IE will immediately begin transmitting the voice message and will repeat the message for 45 seconds. Pressing any touch-tone key on the answering phone will acknowledge the message ending the session and preventing the system from redialing the programmed number. Delivery of a reminder message on the local LYNXR-IE keypad will continue. If the message has timed out the system will redial the programmed number a maximum of seven additional times or until it is acknowledged. Pressing any key on the LYNXR-IE keypad will terminate (acknowledge) both the follow me reminder and the local reminder announcements.

Notes: (1) This feature is only supported if programmed in field ∗49.

(2) The follow me reminder will be terminated if any other event requires the system to dial out, or if an audible alarm has occurred, however, delivery of the local schedule reminder message will continue.

"Follow Me" System Announcement Feature

This feature allows the LYNXR-IE to deliver a voice system message to the secondary phone number programmed by the installer. The LYNXR-IE will first transmit reports to the Central Station and after receiving its kiss-off the system will dial the secondary phone number and begin transmitting the voice message. This message is a repeatable system status announcement. Like the Follow Me reminder, pressing any key on the answering telephone or the local LYNXR-IE keypad will terminate (acknowledge) the message. The system will dial the secondary phone number a maximum of eight times. The Follow Me alarm functions may be triggered by a variety of events depending upon the selections made during programming in field ∗49.

Note: The follow me system announcement will be terminated if any other event requires the system to dial out or if an audible alarm has occurred.

Powerline Carrier Devices (e.g. X10 devices)

If Powerline Carrier Devices are used, two keypad entries available to the user are included. They can manually activate or deactivate the device(s) for starting or stopping some action, such as turning lights on or off, etc.

These keypad entries are:

Security Code* + [#] + [4] + Device # activates (starts) that device.

Security Code* + [#] + [7] + Device # de-activates (stops) that device.

*Code is required for devices 7 and 8. Code is not required for devices 1-6.

Exit Error Alarm Displays

The system will display the following if programmed in Field *59.

Display	Meaning
CA	will appear along with a zone indication if an exit or interior zone contained a fault during closing at the time the exit delay ended (e.g., exit door left open), **but the system was disarmed during the entry delay time.** The alarm sounder and keypad sound continuously, but stop when the system is disarmed. No message will be transmitted to the central station.
EA	will appear along with a zone indication if an exit or interior zone contained a fault during closing at the time the exit delay ended, **but the system was NOT disarmed during the entry delay time.** The alarm sounder and keypad sound continuously until the system is disarmed (or timeout occurs). An Exit Alarm message is sent to the central station. OR if an alarm from an exit or interior zone occurs within two minutes after the end of an exit delay

Entering a second OFF sequence (Code + [OFF]) will clear the display.

System Displays

Display	Meaning
PC	Remote Phone Control feature is active (Appears in place of the clock).
PH	System Speaker Phone mode is active (Appears in place of the clock).
AC	AC power is present. If not displayed, the system is operating on backup battery power.
ALARM	System is armed and an intrusion has been detected (also appears during a fire alarm or audible emergency alarm). Accompanied by the protection zone that is in alarm.
AWAY	All burglary zones, interior and perimeter, are armed.
BYPASS	One or more burglary protection zones have been bypassed.
CHIME	Chime feature is activate
FAULT	A malfunction is discovered in the system; or an open is detected in a fire zone; or a fault in a day/night burglary zone is discovered during a disarmed period. Accompanied by a display of the zone number in trouble.
FIRE	A fire alarm or fire fault is present. Accompanied by a display of the zone that is in alarm
LOW BAT	Low battery condition in a wireless sensor (if zone number is displayed) or low system battery (if no zone number is displayed). If 00 is displayed, a wireless keypad has a low battery condition.
INSTANT	Entry delay is turned off.
MESSAGE	A message has been recorded and has not yet been played back.
REC	The system is in Recording mode.
STAY	Perimeter Burglary zones, such as protected windows and doors, are armed
TEST	System is in Test mode.

Testing the System

Test Mode

After installation is completed, the security system should be carefully tested, as follows.

1. With the system in the disarmed state, check that all zones are intact. If the **READY** LED is not lit, press the [∗] key to display the faulted zone(s). Restore faulted zone(s), if necessary, so that the **READY** LED lights. Fault and restore every sensor individually to assure that it is being monitored by the system.
2. Enter the **security code** and press the **TEST** key. The outside sounder will sound for 1 second and all the LED segments on the keypad display light for 3 seconds. LYNXR-IE announces the zone's voice descriptor (if programmed) followed by 3 beeps, each time a contact is faulted. A test report should be transmitted (if programmed) to the central station immediately. If the backup battery is discharged or missing, the sounder may not turn on and a LOW BATTERY report will be transmitted with a TEST report. The keypad will beep once every 45 seconds as a reminder that the system is in the Test mode.
3. To turn off the Test mode enter **security code** and press the **OFF** key.

Notes: (1) Triggering a zone set to Arm AWAY, Arm STAY, or Disarm will take the system out of Test and cause that action.
(2) BR type transmitters do not display during Test mode (keypad beeps only)
(3) Macros cannot be run from the Test mode.
(4) Test mode automatically ends after 4 hours.

Armed System Test

Alarm messages will be sent to the central station during the following tests 1 and 2. Notify them in advance that tests will be in progress.

1. Arm the system and fault one or more zones. After 15 seconds (if optional dialer delay is selected), silence alarm sounder(s) by entering the **code** and pressing **OFF.** Check entry/exit delay zones.
2. Check the keypad-initiated alarms that are in the system by pressing the Panic key pairs. If the system has been programmed for audible emergency, the keypad will emit a steady alarm sound, and "**ALARM" and zone number** will be displayed. Silence the alarm by entering the **security code** and pressing **OFF.**
   If the system has been programmed for silent emergency, there will be no audible alarms or displays, but a report will be sent to the central station.
3. If Powerline Carrier Devices have been installed, test their programmed action.
4. Notify the central station when all tests are finished, and verify results with them.
5. To test the wireless part of the system and the RF receiver, perform the two additional tests described in the *Installing Wireless Zones* section: Sniffer mode and Go/No Go Test.

Note: **System Test mode** (installer/master code + test) and **Go/No Go Test** (installer code + # + 8) will be **automatically terminated** after 3-1/2 to 4 hours if the installer or user does not manually terminate it. This ensures that fire and panic zones will not remain disabled. However, **Sniffer mode** (installer code + # + 3) **does not automatically expire**. **You must manually exit (Installer/User Code + OFF) Sniffer mode to return to normal operation.**

TO THE INSTALLER

Regular maintenance and inspection (at least annually) by the installer and frequent testing by the user are vital to continuous satisfactory operation of any alarm system.

The installer should assume the responsibility of developing and offering a regular maintenance program to the user as well as acquainting the user with the proper operation and limitations of the alarm system and its component parts. Recommendations must be included for a specific program of frequent testing (at least weekly) to ensure the system's proper operation at all times.

System Communication

This section provides an explanation of formats this system accommodates for reporting alarms and other system conditions to the central station. The process of a successful transmission consists of both the method of communication between the control panel and the central station receiver, and the actual way the information is sent and displayed at the central station.

Communication Overview

When the panel calls the central station receiver, it waits to hear a "handshake" frequency from the receiver to confirm that the receiver is on-line and ready to receive its message. Once the panel hears the handshake it is programmed to listen for, it sends its message. The panel then waits for a "kissoff" frequency from the receiver acknowledging that the message was received and understood.

If the handshake frequency is not given or is not understood by the panel, the panel will not send its message. Once the handshake frequency is received and understood by the panel, the panel will send its message. If there is an error in the transmission (the receiver does not receive a "valid" message), the kissoff frequency will not be given by the central station receiver.

The panel will make eight attempts to the primary telephone number and eight attempts to the secondary telephone number (if programmed) to get a valid message through. If the panel is not successful after its numerous attempts, the keypad will display "FC."

The following chart defines the three sets of (handshake/kissoff) frequencies that the panel supports, and the different formats that can be sent for each.

FORMAT	HANDSHAKE	TRANSMITS DATA	KISSOFF	TRANSMIT TIME
Contact ID®	1400–2300Hz	DTMF (10 cps)	1400Hz	Under 3 seconds

Report Code Formats

ADEMCO Contact ID®	Comprises a 4-digit subscriber number, 1-digit event qualifier
Reporting Format	("new" or "restore"), 3-digit event code, and 3-digit zone number, user number, or system status number (see the accompanying Contact ID Event Code list).

ADEMCO Contact ID® Reporting takes the following format: CCCC Q EEE GG ZZZ where:

CCCC = Customer (subscriber) ID
Q = Event qualifier, where: E = new event, and R = restore
EEE = Event code (3 hex digits) (for a complete list of event codes, refer to the central office receiver manual)
GG = Always "00"
ZZZ = Zone/Contact ID® number reporting the alarm, or user number for open/close reports. System status messages (AC Loss, Walk Test, etc.) contain zeroes in the ZZZ location.

System Communication

CONTACT ID® EVENT CODES

Code	Definition
110	Fire Alarm
121	Duress
122	Alarm, 24-hour Silent
123	Alarm, 24-hour Audible
131	Alarm, Perimeter
132	Alarm, Interior
134	Alarm, Entry/Exit
135	Alarm, Day/Night
145	Case Tamper
146	Silent Burglary
150	Alarm, 24-Hour Auxiliary
301	AC Power
302	Low System Battery/Battery Test Fail
341	Case Tamper
344	RF Jam Detected
351	Phone Fail
353	ECP Communication/Supervision failure, case tamper or low battery
354	Failure to Communicate with Central Station

Code	Definition
373	Fire Loop Trouble
374	Exit Error Alarm
380	Global Trouble, Trouble Day/Night
381	RF Supervision Trouble
383	RF Sensor Tamper (Trouble)
384	RF Sensor Low Battery
401	Disarmed, Armed AWAY (NO DELAY), Armed AWAY
403	Scheduled Auto Arm
406	Cancel by User
407	Remote Arm/Disarm (Downloading)
441	Disarmed/Armed STAY/NO DELAY
570	Bypass
602	Periodic Test
606	AAV to follow
607	System Test
623	Event Log 80% Full
654	System Inactivity

Notes: (1) The following codes are logged in the event log upon occurrence, but are not reported:
305 = System Reset
627 = Keypad Program Mode Entry
655 = Master Code Changed (by Installer)

(2) LRR/IP Communications Module Low Battery and Low Battery restore reports are sent real time. LRR/IP Communications Module trouble restore report is sent after two code + off (only if physically restored).

(3) Communications failure (CID 354) event is logged when the next report is successfully sent followed by a communications failure restore report.

Troubleshooting Guide

Trouble Conditions

The word "FAULT" on the keypad's display, accompanied by a rapid "beeping" at the keypad, indicates that there is a trouble condition in the system. Pressing any key can silence the audible warning sound. Instruct users to call for service immediately upon seeing any of the following messages.

System Trouble Displays

Display	Meaning
FAULT	**and one or more zone numbers** indicates that a problem exists with the displayed zone(s) and requires attention. After correcting the problem, the display can be cleared by entering the security code plus the OFF key twice. The fault condition may also be caused by some change in the environment that prevents the built-in receiver from receiving signals from a particular wireless sensor.
FAULT 103	Indicates one of the following: • control panel lost communication with the communications module • communications module tamper detected (cover removed) • primary communications path failure • radio is not registered; account not activated • primary power loss • secondary communications path failure • battery charger failure • low battery
LOW BAT	**with no zone number** indicates that the system's backup battery is weak.
LOW BAT	**with a zone number** and a once-per-45 seconds "beeping" at the keypad indicates that a low battery condition exists in the wireless sensor displayed (zone "00" indicates a wireless button/keypad). If the battery is not replaced within 30 days, a "FAULT" display may occur.
bF	Backup LRR/GSM/IP module communication failure (displayed on RF Keypad only)
CA	appears if an exit or interior zone contained a fault during closing at the time the Exit Delay ended (e.g., exit door left open), but the system was disarmed during the Entry Delay time. The alarm sounder and keypad sound continuously, but stop when the system is disarmed. No message will be transmitted to the central station.
CC	**Modem Comm.:** system is communicating with the central station for change of function or status verification.
dI	**Busy-Standby** displayed upon power-up. After approximately 1 minute* the green "READY" LED should light. If the "**dI**" remains displayed for more than 1 minute, the system is disabled. *To bypass the 1-minute delay, press [#] + [0]. **Important:** Do not try to bypass 1minute delay before "**dI**" is displayed!
EA	appears when Exit Delay ends if an exit or interior zone contained a fault during closing. The alarm sounder and keypad sound continuously until the system is disarmed (or timeout occurs). An "Exit Alarm" message is sent to the central station. Also results if an alarm from an exit or interior zone occurs within 2 minutes after the end of an Exit Delay.
FC	communication failure has occurred. This message clears only when the system is subsequently armed.
90	system has detected an RF jamming condition or excessive interference.
No display	**Power Failure** If there is no keypad display at all, and the LED indicators are not lit, operating power for the system has stopped and the system is inoperative. If the display is lit and the AC display is off, the system is operating on battery power only. During an AC power loss, the backlighting will turn off and the indicators will flicker slightly to minimize deep discharge of the battery.

Troubleshooting Guide

System (including Wireless)

SYMPTOM	POSSIBLE CAUSE	REMEDY
1. Transmitter signal not received at control.	1a. Transmitter not properly powered.	1a Check or change transmitter's battery.
	1b. Transmitter is located too far from RF receiver.	1b. Move transmitter or RF receiver.
	1c. There is metal shielding between transmitter and RF receiver.	1c. Check for large metal obstructions, then relocate transmitter if necessary.
	1d. Transmitter is malfunctioning.	1d. Verify by activating control with another, similar transmitter. If O.K. now, return defective transmitter.
	1e. Transmitter No. (zone) is not programmed.	1e. Verify programming.
2. Transmitter zone number appears during Transmitter Sniffer mode, but does not clear.	2a. Transmitter zone type (ZT) is set to 00 (Not Used).	2a. Set ZT to a valid active zone type in field ✻56.
	2b. Transmitter battery not installed.	2b. Install proper battery.
	2c. Wireless transmitter not "entered" in system.	2c. "Enter" unit in field ✻56 or ✻83.
3. Low battery message on keypad.		
3a. "Low Bat" (no zone Nos.)	3a. System battery is low or missing.	3a. Replace system battery.
3b. "Low Bat" + "00".	3b. Remote RF keypad/button battery is low.	3b. Replace battery in the RF keypad.
3c. "Low Bat" + "nn".	3c. Transmitter for zone "nn" has a low battery.	3c. Replace the battery in the displayed transmitter.
	3d. Standard- or High-Capacity battery connected to wrong receptacle.	3d. Ensure that battery is properly connected.
4. Periodic beep(s) from keypad.	4a. System is in Test mode.	4a. Enter Code + OFF to exit Test mode.
	4b. A transmitter low battery has occurred and is displayed.	4b. Enter Code + OFF and replace the battery.
	4c. A supervision fault has occurred.	4c. Check the transmitter indicated. Restore communication to the receiver to cancel the condition.
	4d. System low battery	4d. Replace system battery
5. There is no response to a transmitter in normal operation, although zone number clears during Transmitter Sniffer mode.	Put control in Test mode. If zone does not respond, try operating the tamper switch or another input to the transmitter.	
	5a. If another input causes the zone to be displayed, the wrong input was "entered" when programming.	5a. Delete input's serial number (not the zone), and enter the proper input (see field ✻56).
	5b. If no response at all from this transmitter, this physical transmitter has not been entered by the system. Transmitter Sniffer display is being cleared by another unit programmed for this zone.	5b. Determine which transmitter is programmed for this zone and reprogram as necessary.
6. Nuisance or phantom alarm.	6. Sensors not properly installed, wired, or monitored.	6. Check installation to see if in accordance with established procedure.
7. Intrusion alarm for no apparent reason.	7a. Protected door or window opened while system armed.	7a. Check with all occupants of protected home.
	7b. Improper user operation of exit/entry delays.	7b. Check setting of entry and exit delays.
	7c. Magnets located too far from switches, and/or doors and windows not properly aligned.	7c. Check all openings for proper switch and magnet orientation.

Troubleshooting Guide

Control

SYMPTOM	POSSIBLE CAUSE	REMEDY
1. The word "AC" is not displayed.	1a. Interrupted AC power supply.	1a. Check transformer connection and powerline circuit breaker.
2. Digital communicator message not being received.	2a. System in Test mode. 2b. Telephone connection not secure. 2c. Digital communicator malfunctioning. 2d. Telephone number in program needs prefix or access code. 2e. Telephone call to central monitoring station requires operator assistance.	2a. Remove from Test mode. 2b. Check all connections. 2c. Check with a different CONTROL PANEL. 2d. Program prefix or access code into the CONTROL PANEL. 2e. System cannot work in this situation.
3. Does not arm properly. READY light not on.	Open or faulted zone(s)	Check for faulted zones and make intact, or use Bypass arming, if desired.
4. System doesn't respond to keystrokes on keypad. 4a. "CC" displayed. 4b. "d1" displayed.	4a. System is in communication with downloader at central station. 4b. System has just been powered and is in its one minute initialization.	4a. Wait until download session is finished. 4b. Wait for initialization to finish, or bypass this time by pressing '#' + '0.'

Smoke Detectors

SYMPTOM	POSSIBLE CAUSE	REMEDY
1. Detector alarms, no apparent reason.	1a. Dust, dirt in sensing chamber. 1b. Improper location. 1c. Unit malfunctioning.	1a. Clean unit's sensing chamber with vacuum cleaner per unit's instructions. 1b. See unit's instructions for locations to avoid. Relocate as necessary. 1c. Replace detector.
2. Detector's siren sounds.	2a. Unit not receiving required power. 2b. Unit malfunctioning.	2a. Check for proper installation of battery. Try new battery. 2b. Replace detector.

Programming Default Tables

(boldface indicates defaults that differ between tables)

Function	Table 1	Table 2	Table 3	Table 4
*20 Installer code	4112	4112	4112	4112
*22 Keypad backlight timeout	0	0	0	0
*23 Forced bypass	0	0	0	0
*25 Powerline carrier device house code	0	0	0	0
*26 Chime-by-zone	0	0	0	0
*27 Real-time clock display	1	1	1	1
*28 Power Line Frequency/Real Time Clock Time Base	1	1	1	1
*29 Daylight saving time start/end month	3,11	3,11	3,11	3,11
*30 Daylight saving time start/end weekend	2,1	2,1	2,1	2,1
*31 Single alarm sounding per zone	0	0	0	0
*32 Fire sounder timeout	0	0	0	0
*33 Alarm bell timeout	1	1	1	1
***34 Exit delay**	**7,0**	**6,0**	**7,0**	**7,0**
***35 Entry delay 1 (zone type 01)**	**3,0**	**4,5**	**3,0**	**3,0**
*36 Entry delay 2 (zone type 02)	6,0	6,0	6,0	6,0
***37 Audible exit warning/quick exit**	**1,1**	**0,1**	**1,1**	**1,1**
*38 Confirmation of arming ding	0	0	0	0
*39 Power up in previous state	1	1	1	1
*40 PABX access code	---	---	---	---
*41 Primary phone number	---	---	---	---
*42 Secondary phone number	---	---	---	---
*43 Primary subscriber account number	15,15,15,15	15,15,15,15	15,15,15,15	15,15,15,15
*44 Secondary subscriber account number	---	---	---	---
*46 “Follow Me Reminder” Phone Number	---	---	---	---
*47 Phone system select	5	5	5	5
*48 Report format	1,1	1,1	1,1	1,1
*49 Split/dual reporting	0	0	0	0
***50 15 second dialer delay (burglary)**	**0**	**1**	**0**	**0**
***51 Periodic test report**	**0**	**3**	**0**	**0**
*52 First test report offset	2	2	2	2
*54 Lack of usage notification	0	0	0	0
*56 Enhanced Zone programming	See *56 table	See *56 table	See *56 table	See *56 table
*58 RF jam detection	0	0	0	0
***59 Exit error report code**	**1**	**0**	**1**	**1**
*60 Trouble report code	1,0	1,0	1,0	1,0
*61 Bypass report code	0,0	0,0	0,0	0,0
*62 AC loss report code	0,0	0,0	0,0	0,0
*63 Low battery Report code	1,0	1,0	1,0	1,0
*64 Test report code	1,0	1,0	1,0	1,0
*65 Open report code	0	0	0	0
*66 Arm away/stay report code	0,0	0,0	0,0	0,0
*67 RF transmitter low battery report code	1,0	1,0	1,0	1,0
*68 Cancel report code	1,0	1,0	1,0	1,0
*70 Alarm restore codes	1	1	1	1
*71 Trouble restore report code	1,0	1,0	1,0	1,0
*72 Bypass restore report code	0,0	0,0	0,0	0,0
*73 AC restore report code	0,0	0,0	0,0	0,0
*74 Low battery restore report code	1,0	1,0	1,0	1,0
*75 RF transmitter low battery restore report code	1,0	1,0	1,0	1,0
***76 Test restore report code**	**0,0**	**1,0**	**0,0**	**0,0**
*78 Programmable Time Generation Time	0,0	0,0	0,0	0,0
***80 Powerline Carrier Devices**	**See *80 table**	**See *80 table**	**---**	**See *80 table**
*81 Zone lists for devices	See *81 table	See *81 table	See *81 table	See *81 table
*82 Telephone line monitor	0,0	0,0	0,0	0,0
*84 Assign zone voice descriptors	Refer to *84 Programming			
***87 Auxiliary Function/ Manual Message**	**0**	**1**	**0**	**1**
*89 Event log 80% full report code	0,0	0,0	0,0	0,0

Programming Default Tables

(boldface indicates defaults that differ between tables)

Function	Table 1	Table 2	Table 3	Table 4
*90 Event logging	15	15	15	15
*91 Alarm audio verification/remote phone control	2	2	2	2
*92 Number of reports in armed period	1	1	1	1
*93 Flexible call back	0	0	0	0
*94 Download phone number	---	---	---	---
*95 Ring detect count for downloading/remote phone control	15	15	15	15
Default Master Code	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4
Default Duress Code	**---**	**---**	**---**	**---**

By activating *96, Field 43, and 44 will be changed to 15, 15, 15, 15.

✻56 ZONE ASSIGNMENT/ALARM REPORT CODES FOR TABLE 1

Zone No.	Zone Type	Alarm Code	Input Type	Loop Number	Zone Descriptor
2	01	1,0	3 (RF)	2	47, 04 (FRONT DOOR)
3	01	1,0	3 (RF)	2	33, 04 (BACK DOOR)
4	03	1,0	3 (RF)	2	80 (WINDOW)
5	10	1,0	3 (RF)	1	56 (MOTION DETECTOR)
26	21	1,0	5 (BR)	3	
27	22	1,0	5 (BR)	2	
28	20	1,0	5 (BR)	4	
29	23	0,0	5 (BR)	1	
30	21	1,0	5 (BR)	3	
31	22	1,0	5 (BR)	2	
32	20	1,0	5 (BR)	4	
33	23	0,0	5 (BR)	1	
92	---	1,0	---	---	
94	---	1,0	---	---	
97	---	1,0	---	---	
99	06	1,0	---	---	

NOTE: Zone 2 to 41 are RF zones; Zone 92 is Duress; Zone 94 is Phone Line Monitor, Zone 97 is Case Tamper; Zone 99 is keypad panic

✻56 ZONE ASSIGNMENT/ALARM REPORT CODES FOR TABLE 2

Zone No.	Zone Type	Alarm Code	Input Type	Loop Number	Zone Descriptor
2	01	1,0	3 (RF)	2	47, 04 (FRONT DOOR)
3	01	1,0	3 (RF)	2	33, 04 (BACK DOOR)
4	01	1,0	3 (RF)	2	48, 04 (GARAGE DOOR))
5	04	1,0	3 (RF)	1	56 (MOTION DETECTOR)
6	09	1,0	3 (RF)	1	22, 02 (SMOKE DETECTOR)
26	21	1,0	5 (BR)	3	
27	22	1,0	5 (BR)	2	
28	20	1,0	5 (BR)	4	
29	23	0,0	5 (BR)	1	
30	21	1,0	5 (BR)	3	
31	22	1,0	5 (BR)	2	
32	20	1,0	5 (BR)	4	
33	23	0,0	5 (BR)	1	
92	---	1,0	---	---	
94	---	1,0	---	---	
95	08	1,0	---	---	
96	09	1,0	---	---	
97	---	1,0	---	---	
99	07	1,0	---	---	

NOTE: Zone 2 to 41 are RF zones; Zone 92 is Duress; Zone 92 is Duress; Zone 94 is Phone Line Monitor; Zones 95, 96 and 99 are keypad panics

Programming Default Tables

✻56 ZONE ASSIGNMENT/ALARM REPORT CODES FOR TABLES 3 & 4

Zone No.	Zone Type	Alarm Code	Input Type	Loop Number	Zone Descriptor
2	01	1,0	3 (RF)	2	47, 04 (FRONT DOOR)
3	01	1,0	3 (RF)	2	33, 04 (BACK DOOR)
4	03	1,0	3 (RF)	2	80 (WINDOW)
5	03	1,0	3 (RF)	2	80 (WINDOW)
6	03	1,0	3 (RF)	2	80 (WINDOW)
7	03	1,0	3 (RF)	2	80 (WINDOW)
8	10	1,0	3 (RF)	1	56 (MOTION DETECTOR)
9	09	1,0	3 (RF)	1	22, 02 (SMOKE DETECTOR)
26	21	1,0	5 (BR)	3	
27	22	1,0	5 (BR)	2	
28	23	0,0	5 (BR)	4	
29	23	0,0	5 (BR)	1	
30	21	1,0	5 (BR)	3	
31	22	1,0	5 (BR)	2	
32	23	0,0	5 (BR)	4	
33	23	0,0	5 (BR)	1	
92	---	1,0	---	---	
94	---	1,0	---	---	
97	---	1,0	---	---	
99	06	1,0	---	---	

NOTE: Zone 2 to 41 are RF zones; Zone 92 is Duress; Zone 92 is Duress; Zone 94 is Phone Line Monitor; Zone 99 is keypad panic

✻80 DEFAULT TABLE: APPLIES TO DEFAULT TABLE 4 (devices 2-7 have no default values)

		Start			Stop	
Device Number	action	Event	Zone List	Zone Type System Operation	Restore of Zone List	Zone type System operation
1	2	2	1		2	
8**	2			33		36

**** NOTE:** If using an X10 Powerhouse Security SH10A siren as device 8, you must change the device action default to "3" if using default table 4.

✻80 DEFAULT TABLE: APPLIES TO DEFAULT TABLE 1 and 2 (devices 1-7 have no default values)

		Start			Stop	
Device Number	action	Event	Zone List	Zone Type System Operation	Restore of Zone List	Zone type System operation
8**	2			33		36

✻81 ZONE LIST FOR OUTPUT DEVICES DEFAULT TABLE: Applies To Default Table 1 - 4.

Zone List 1	28, 32
Zone List 2	29, 33
Zone List 3	2, 3

WARNING
THE LIMITATIONS OF THIS ALARM SYSTEM

While this System is an advanced design security system, it does not offer guaranteed protection against burglary, fire or other emergency. Any alarm system, whether commercial or residential, is subject to compromise or failure to warn for a variety of reasons. For example:

- Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device.
- Intrusion detectors (e.g., passive infrared detectors), smoke detectors, and many other sensing devices will not work without power. Battery-operated devices will not work without batteries, with dead batteries, or if the batteries are not put in properly. Devices powered solely by AC will not work if their AC power supply is cut off for any reason, however briefly.
- Signals sent by wireless transmitters may be blocked or reflected by metal before they reach the alarm receiver. Even if the signal path has been recently checked during a weekly test, blockage can occur if a metal object is moved into the path.
- A user may not be able to reach a panic or emergency button quickly enough.
- While smoke detectors have played a key role in reducing residential fire deaths in the United States, they may not activate or provide early warning for a variety of reasons in as many as 35% of all fires, according to data published by the Federal Emergency Management Agency. Some of the reasons smoke detectors used in conjunction with this System may not work are as follows. Smoke detectors may have been improperly installed and positioned. Smoke detectors may not sense fires that start where smoke cannot reach the detectors, such as in chimneys, in walls, or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level of a residence or building. A second floor detector, for example, may not sense a first floor or basement fire. Finally, smoke detectors have sensing limitations. No smoke detector can sense every kind of fire every time. In general, detectors may not always warn about fires caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson. Depending on the nature of the fire and/or location of the smoke detectors, the detector, even if it operates as anticipated, may not provide sufficient warning to allow all occupants to escape in time to prevent injury or death.
- Passive Infrared Motion Detectors can only detect intrusion within the designed ranges as diagrammed in their installation manual. Passive Infrared Detectors do not provide volumetric area protection. They do create multiple beams of protection, and intrusion can only be detected in unobstructed areas covered by those beams. They cannot detect motion or intrusion that takes place behind walls, ceilings, floors, closed doors, glass partitions, glass doors, or windows. Mechanical tampering, masking, painting or spraying of any material on the mirrors, windows or any part of the optical system can reduce their detection ability. Passive Infrared Detectors sense changes in temperature; however, as the ambient temperature of the protected area approaches the temperature range of 90° to 105°F (32° to 40°C), the detection performance can decrease.
- Alarm warning devices such as sirens, bells or horns may not alert people or wake up sleepers if they are located on the other side of closed or partly open doors. If warning devices are located on a different level of the residence from the bedrooms, then they are less likely to waken or alert people inside the bedrooms. Even persons who are awake may not hear the warning if the alarm is muffled by noise from a stereo, radio, air conditioner or other appliance, or by passing traffic. Finally, alarm warning devices, however loud, may not warn hearing-impaired people.
- Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service or temporarily out of service. Telephone lines are also subject to compromise by sophisticated intruders.
- Even if the system responds to the emergency as intended, however, occupants may have insufficient time to protect themselves from the emergency situation. In the case of a monitored alarm system, authorities may not respond appropriately.
- This equipment, like other electrical devices, is subject to component failure. Even though this equipment is designed to last as long as 10 years, the electronic components could fail at any time.

The most common cause of an alarm system not functioning when an intrusion or fire occurs is inadequate maintenance. This alarm system should be tested weekly to make sure all sensors and transmitters are working properly. The security keypad (and remote keypad) should be tested as well.

Wireless transmitters (used in some systems) are designed to provide long battery life under normal operating conditions. Longevity of batteries may be as much as 4 to 7 years, depending on the environment, usage, and the specific wireless device being used. External factors such as humidity, high or low temperatures, as well as large swings in temperature, may all reduce the actual battery life in a given installation. This wireless system, however, can identify a true low battery situation, thus allowing time to arrange a change of battery to maintain protection for that given point within the system.

Installing an alarm system may make the owner eligible for a lower insurance rate, but an alarm system is not a substitute for insurance. Homeowners, property owners and renters should continue to act prudently in protecting themselves and continue to insure their lives and property.

We continue to develop new and improved protection devices. Users of alarm systems owe it to themselves and their loved ones to learn about these developments.

Specifications

LYNXR-IE Security Controls

1. Physical: 264 mm (W) x 181 mm (H) x 45 mm (D)

2. Electrical:

VOLTAGE INPUT: 9VAC from plug-in 25VA transformer.

RECHARGEABLE BACKUP BATTERY: Nickel-metal hydride battery pack rated at 7.7Vdc.

ALARM SOUNDER: Piezo = 6-14VDC, 30mA max/ Bell = 6-14VDC, 120mA max (e.g., ADEMCO's WAVE2EX).

3. Communication:

FORMATS SUPPORTED:

ADEMCO Contact ID® Reporting**,** 10 characters/sec., DTMF (TouchTone) Data Tones, 1400/2300Hz ACK, 1400Hz KISSOFF.

Line Seize: Double Pole

Ringer Equivalence: 0.6B

Contacting Technical Support

PLEASE, before you call Technical Support, be sure you:

- **READ THE INSTRUCTIONS!**
- **Check all wiring connections.**
- **Determine that the power supply and/or backup battery are supplying proper voltages.**
- **Verify your programming information where applicable.**
- **Note the proper model number of this product, and the version level (if known) along with any documentation that came with the product.**
- **Note your Honeywell customer number and/or company name.**

Having this information handy will make it easier for us to serve you quickly and effectively.

You may contact Technical Support via Toll Free Fax. Please include your return fax number. You will receive a reply within 24 hours.

Technical Support:	1-800-645-7492 (8 a.m.-8 p.m. E.S.T.)
FAX FAXBACK Automated Fax Retrieval System:	1-800-573-0153 or 1-516-921-6704 / ext. 1667
World Wide Web Address:	http://www.honeywell.com/security

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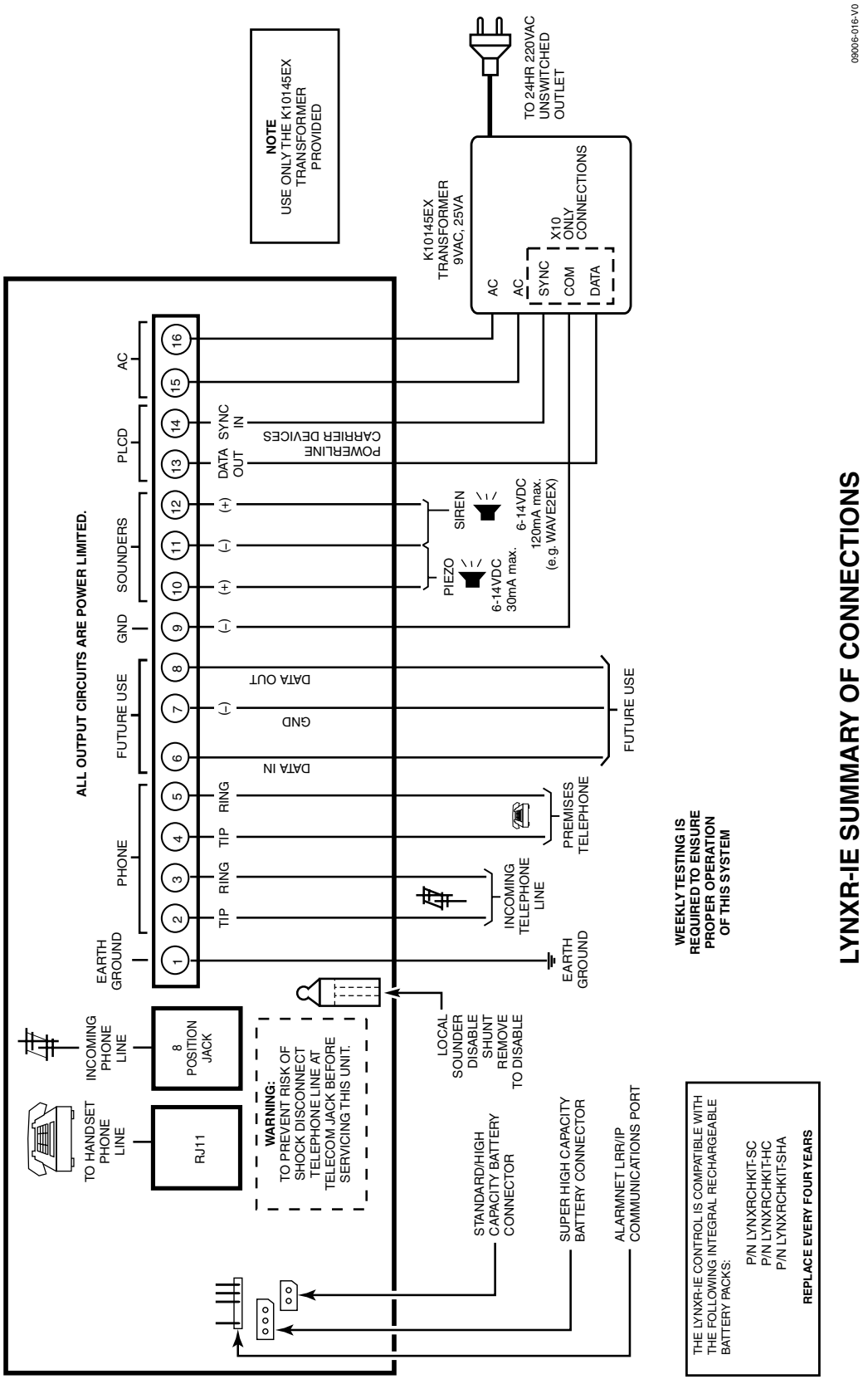

Notes: Connection of the fire alarm signal to a fire alarm headquarters or a central station shall be permitted with the approval of the local authority having jurisdiction. The burglar alarm signal shall not be connected to a police emergency number.

The System must be checked by a qualified technician once every three years.

WARRANTY INFORMATION

For the latest warranty information, please go to:

www.honeywell.com/security/hsc/resources/wa

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